

PARLIAMENT, March 25, 1976

Privilege complaint about offer by European Ferries of extra 15p a share if Felixstowe Bill fails

House of Commons

Mr Dennis Skinner (Bolsover, Lab.) raised a point of order arising from the debate last night on the British Transport Docks (Felixstowe) Bill, which received its second reading by 223 votes to 179—majority.

He said it had been made abundantly clear, on at least a couple of occasions and on one occasion by the MP for Ipswich (Mr Kenneth Weech, Lab.), that the offer of an additional 15p would be paid on the basis that the members of Parliament would vote that the Bill should be passed.

A document said: "Provided the British Transport Docks (Felixstowe) Bill is passed in its original or modified form currently before Parliament does not receive Royal Assent, ordinary stockholders who accept the offer will be paid an additional amount of 15p in cash for each ordinary stock unit of the Felixstowe Dock and Harbour Company which they held on the day of the Bill being withdrawn or otherwise lapsing."

The Bill was still proceeding as a result of the offer, but it had to go through the processes in the House so this needed to be clarified by Mr Skinner.

Other suggestions of breach of privilege had been raised on the basis of statements by trade union leaders in the various debates about possible inducements of MPs to vote in a certain way. These had been established as prima facie cases for the committee to examine.

On that basis, Mr Skinner (the said) you should look at that document and decide whether there has been a breach of privilege, as a result of the publication, to induce MPs to vote in a certain way on a Bill before the House of Commons.

The Speaker (Mr George Thomas) said he was obliged to Mr Skinner for the way he has presented his question, and I shall, following precedents, give my ruling tomorrow.

Mr Brian Sedgemore (Luton, West, Lab.) in view of the proceedings on the Bill yesterday, can you not, on some future occasion, give some advice on voting procedures in private business. Some MPs declared an interest, some a direct interest, in the Felixstowe Company. If the voting lists are to be believed, some voted and some did not.

You will have been aware, Mr Speaker, that votes have been disallowed over private Bills where people voting have had an interest, sometimes direct, sometimes indirect.

On May 20, 1925, when the House was debating the Leith Dock Bill, which is appropriate to yesterday's debate, one MP voted against the Bill and the vote was expunged from the record.

As private Bills appear to be whips on both sides and are encouraged to go into the lobby, it would seem appropriate for you to give guidance on the way MPs should conduct themselves over these matters.

The Speaker—It is a dangerous position for the occupant of the Chair to guide people as to their conduct in the various divisions. The rules of the House are there for all MPs to read.

The facts are largely as he said about the decision of the House because the vote of that particular person was expunged immediately after the division.

In this case it should have been raised, if there was a challenge last night, immediately after the division.

I will consider what he said but I doubt if there will be much advantage in my making a further statement on this matter.

Mr Nicholas Ridley (Cirencester and Tewkesbury, C.)—We are in something of a dilemma because if

the Bill last night did not pass then we understand there might have been benefit to shareholders in the Felixstowe Dock and Harbour Company. On the other hand, if the Bill did pass and in due course becomes law there is damage to all MPs because it will involve another sum of £5.25m which will have to be raised in taxes.

It does not matter whether the pecuniary advantage is through having lower taxes or having higher prices. (Labour interruptions.)

The Speaker—Mr Ridley must not involve me in a question because I shall be looking at the question of privilege. I do not want to discuss anything related to it until I have discussed it in the House.

Mr Norman Burcham (West Renfrewshire, Lab.)—You referred, Mr Speaker, to the fact that the vote of certain people in the House was expunged immediately after the vote. I do not understand the procedure prevailing in 1925 but I am aware of the procedures prevailing in 1976.

We have no means of knowing who has and who has not voted until the lists formally appear in Hansard published today.

It is not for me to say that we do not accept the precedent as a total precedent but perhaps as a guide to action.

The Speaker—I understand no member individually. It is a general statement which the hon member has made.

Mr Frederick Borden (Gillingham, Lab.)—Is it not a fact that unless a member had shares in the particular company, and therefore if the Bill failed he would receive an extra 15p for every share he held, and unless there are such MPs who actually voted in the lobby they would be unable to sell their product.

The Speaker—I will consider all the matters raised.

Butter price could rise by 9p a pound

The price of butter could rise by 8p or 9p a pound by the end of the year and the price of cheese by 5p to 6p, Mr Edward Bishop, Minister of State for Agriculture, Fisheries and Food, said in reply to a question.

Mr Raphael Tuck (Watford, Lab.) asked: Bearing in mind that even before the latest staggering increases, the EEC price of butter was more than three times the world price of butter, what prospects does this increase, which will be one to three times the price of the Common Market?

Mr Bishop (Newark, Lab.)—It is difficult to give an exact reply. If changes in EEC prices agreed at the Council in London in March 1976, the price of butter could rise by 8p or 9p a pound by the end of the year and the price of cheese could rise by 5p to 6p.

The bulk of these increases are the result of our obligations under the Treaty of Accession, under which we are committed to bring United Kingdom prices to EEC levels by 1978. The Treaty of Accession was negotiated by the Conservative Government.

Mr Bishop (Cardigan, Lab.)—Does Mr Bishop agree that the price review will increase dairy farm production to his satisfaction?

Mr Bishop—Yes. This is an important point.

Mr Francis Pym, Opposition spokesman on agriculture (Cambridge, C.)—Mr Bishop agrees with Commissioner Lardinois when he said that British dairy farmers have been treated unfairly by the EEC. It is a pity that food in this country has been cheaper than it would otherwise have been.

Mr Bishop—Yes. I also agree with Commissioner Lardinois when he said Mr Peart had got a good package from his recent proposals.

Mr Richard Cawthra (Liverpool, Lab.)—Only a few months ago, when the Government were complaining that butter was too cheap, they were unable to sell their product.

Mr Bishop—This is a matter for consumer choice.

Tighter security at Palace of Westminster

There was no reason to suppose that a man employed on a casual basis at the Palace of Westminster was the subject of press stories or had been a member of the IRA, Mr Edward Short, Lord President of the Council, said in a statement.

He said: The man who has been the subject of stories in the press in the last few days was employed on a casual basis at the Palace of Westminster, and I am sure that his services came to an end, when his name was replacing returned to duty that day.

Mr Speaker, I am sure you and the House will not expect me to comment in detail on this particular case, other than to say that there is no reason to suspect that the man in question has been or is a member of the IRA.

This incident has, however, highlighted the security problems which are inherent in the employment of casual staff at the Palace of Westminster. It is my duty to ensure that the security of the Palace is maintained at all times.

The previous Speaker (Mr Sir John Glynne, C.) had a similar incident to deal with yesterday. This report is in the Speaker's hands and I understand he will be making a statement to the House on it.

Certain measures have already been agreed and those concerned are considering urgently what further improvements are possible.

Mr Michael Rotherham (Louth, C.)—Is Mr Short satisfied with security arrangements at the Palace of Westminster? We must accept that there is a certain amount of risk for those who work there, but we should be concerned not only for the safety of MPs but also for the safety of the public.

On the employment of casual labour, can he assure us that some form of screening will be introduced so that people who might put this place at risk will not be employed there on a temporary or permanent basis?

Mr Short—No, I am not satisfied with the security of this building. We are constantly reviewing and trying to improve it.

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Army and police in Ulster tired of politically motivated criticism

The object of Government security policy in Northern Ireland was to ensure that the RUC and the Army, aided by the significantly growing number of people who voluntarily give information to the security forces, would provide a safe and secure environment for the future.

This year 274 people had been charged with offences including 15 with murder or attempted murder. The security forces had found or neutralized over 15,000 explosives.

These remarkable figures did not indicate inactivity by the security forces. Nor did they support the charge of continued direct rule.

Somehow there was a view that the Government were restraining the security forces in Northern Ireland.

Too little was heard of the successes in recovering explosives in the past two months. It was said that the security forces were deliberately inactive.

In 1975 nearly five million vehicles had been made and 30,000 new cars were being produced. It was for the General Officer Commanding to decide to deploy his troops where he saw fit in the public interest to disclose details of troop movements.

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Mr Peart's dislike of skimmed milk plan

Mr Nicholas Winterston (Maclean, C.) asked the Minister of Agriculture, Fisheries and Food what was the present level of stocks of skimmed milk powder in the United Kingdom.

Mr Frederick Peart (Workington, Lab.) said that the skimmed milk powder in the United Kingdom was 1,150,000 metric tonnes, of which 23,000 metric tonnes were held by the Ministry of Agriculture, Fisheries and Food.

These stocks have accumulated over several years as a result of the operation of the system of intervention purchases and sales by which the common agricultural policy is implemented.

These transactions take place continuously. It is not possible to state the total cost of the balance in stocks at any one time.

Mr Winterston—Will it not cost the British farmers at least an extra £20m to pay for the 60,000 tonnes which will be imported if the intervention system is accepted. This will be particularly unfair to poultry and pig farmers and make a nonsense of the Government's policy to peg costs.

Mr Peart—Mr Winterston, it is 40,000 tonnes of skimmed milk powder which is being imported. The intervention system and the fact that the Government are not buying milk at a price which is higher than the world price is a factor in the cost of the intervention system.

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Bill of Rights would alter role of courts

House of Lords

Lord Wade (L) moved the second reading of the Bill of Rights Bill, which he said provided that the principles set out in the European Convention for the Protection of Human Rights should be enforceable by action in the United Kingdom courts. It should be part of the domestic law.

The convention was approved by the Council of Europe in 1950, and came into force in 1953 and was ratified by 10 countries. It was called by the United Kingdom in 1951. Since 1951 the United Kingdom has had the right, subject to rules about admissibility, to petition to the European Commission and ultimately to the Human Rights Court in Strasbourg.

Eight countries had gone further and incorporated the convention into their domestic law. The United Kingdom had not yet done so.

It had been argued by some jurists that the ratification of the convention and the incorporation into domestic law should be regarded as an obligation in the light of the wording of Article 1, which stated: "The high contracting parties shall secure to everyone within their jurisdiction the rights and freedoms defined in section 1 of the convention."

Lord Hailsham of St Marylebone, for the Opposition, said he did not believe a private member's Bill altering the constitution was a very good idea. It was a much more tricky task than that which Lord Wade had outlined.

After all, would any other, though the whole relationship between the judiciary, executive, and legislature.

A proposal such as a Bill of Rights should first be examined by referring it to a select committee so that the evidence of the judiciary, parliamentarians, and others could be considered and then reported back to the House.

The technical difficulties of such a Bill had been gravely underestimated. There were 20 or 30 volumes of statutes under the clerk's table, more than 1,000 pages in length.

If such a Bill was enacted it could be said, in relation to any one of those statutes, that it was a "Bill of Rights". (He said) with a Bill of Rights and I will show you a nation with less actual rights than Britain because the escape routes are not as clear and less easily by the executive. It is therefore to some extent a bogus protection.

Putting top dogs, especially when they happened to be elected by a small minority, in charge of the people was not government of the people by the people for the people it was elective dictatorship.

Lord Gardiner said that over the past 50 years the executive and to some extent the bureaucracy had gained in power at the expense of Parliament and the judiciary. Parliament must do what it could to improve its powers.

There was a strong and growing international movement for the protection of human rights. It would be said if the United Kingdom did not play its full part in it. Devolution would probably require it before long.

A Bill of Rights would have a major educational effect. If it was right to have such a Bill, there was a serious question about what form it should take. The European Convention was the best one, and there was the advantage that the United Kingdom had accepted it.

Lord Lloyd of Hampstead (Lab) said that the Bill aimed at the control of the executive because it complained that Parliament encroached on human rights. There were powerful reasons for opposing that situation.

It was a traditional wisdom of the system that judges were better kept out of political decision-making. It was an illusion to think that applying these vague general words in a task comparable to interpreting the words of an ordinary statute.

New moves by Cuba would cause concern

During questions to the Prime Minister about southern Africa, Peter Blaker (Blackpool, South, C) said: Since the British Government have been in touch with the South African Government, the withdrawal of the remaining South African troops from Angola, may I direct the attention of the Prime Minister to the fact that much more numerous Cuban forces still in that country.

Since Dr Fidel Castro made a speech last week in Coahuila in which he implied that Cuba may have a role to play in other countries in southern Africa, it is important to know what the British Government would do about that?

Mr Harold Wilson (Huyton, Lab.)—The Secretary of State for Foreign and Commonwealth Affairs (Mr Callaghan) has made clear, as I have, our views about intervention in Angola, but the Cubans have not, in the last few weeks, been requested by any other country in the area to intervene in any other territory.

Mr Wilson—We have made clear our view, both in the meetings I had on my own initiative with the Soviet Ambassador a week or two ago and in the most recent talks on the question of any overseas intervention in what was previously British territory in East Africa.

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Mr

HOME NEWS

Construction firm fined £675,000 in 'lump' fraud case and three senior executives jailed

One of Britain's biggest construction companies, J. Murphy & Sons Ltd, of Highbury, London, was fined £675,000 at a Central Criminal Court yesterday after being found guilty of a plot to fraud the Inland Revenue of more than £850,000 in "lump" payments to workers.

Three of the firm's senior executives were sentenced to two years' imprisonment and £10,000 each for plotting cheat and defraud the Inland Revenue over 26 months. They were Florence Felix Cardy, aged 37, the company secretary, of Leicester Road, Barnet; Michael Holly, 37, the managing director, Chesham, Southgate; James Wynn, aged 36, the financial director, of Oaklands, Winchester Hill, all London.

Murphy's sister company, M. Rilling Ltd, was fined £100,000. The sentences were ordered by Judge Kingsmill, who ordered that Murphy's legal costs be paid by the firm.

Other sentences were: James Cardy, aged 33, a company director, of Hax Lane, Harewood, London, jailed for 18 months, and fined £10,000; Timothy Slattery, aged 32, a company director, of Milton Road, Harewood, London, 12 months' imprisonment, suspended for two years, and fined £500; Thomas Wright, aged 46, a company director, of Elton Avenue, Sudbury, Middlesex, 12 months' imprisonment, suspended for one year, and fined £1,000; Martin Wynn, aged 44, wages manager, Kingsmill Avenue, Kenton, London, 12 months' jail, suspended for one year, and fined £1,000; and Frederick Chute, aged 27, now unemployed, of Stow, Republic of Ireland, 10 years' jail, suspended for 5 years, and fined £500.

The total in fines and costs is £837,700.

The judge said: "I find it difficult to speak with moderation in a large, well known

and highly efficient and higher to highly respected company, through some of its directors and higher executive officers, engaged on a gigantic fraud of this kind, carried on over two years."

The offence was aggravated by the fact that a number of hard-working servants of the company had been suborned, not only into taking part in the conspiracy but to commit "the most blatant perjury."

Mr John Leonard QC, for the prosecution, said at the beginning of the trial that the Inland Revenue was cheated out of £1,468,356, but yesterday he said that was not realistic, because the figure was based on a 30 per cent tax deduction.

The building workers would, in fact, have been paying at a much lower rate than 30 per cent, taking into account marriage and child allowances. He agreed with Mr James Conyn, QC, for the defence of the companies, that a more realistic figure of tax losses would be £856,000. This was based on a calculation that the average building worker would pay 17½ per cent of his earnings in tax.

The "lump" is labour-only sub-contracting, tax exemption certificates exempt both side sub-contractors from having tax deducted at source by contractors.

The prosecution had said that Murphy employees had "dressed up" as sub-contractors in a plot to avoid payment of income tax.

The fraud was carried out from April, 1972, until June, 1974, with members of the joint labour force of the two firms being paid wholly or in part without tax deductions. To give the matter a cloak of legality, payment was made through a number of limited companies.

Mr Leonard said the plot began the day before an Act of Parliament came into force preventing tax abuse by use of the "lump" system in the building industry.

A statement from J. Murphy and Sons said an appeal was being considered against the conviction of the company and certain of its employees.

It added: "The company has a healthy order book and, due to its financial stability and the strength and depth of its management, the board is confident that the company's future trading position is assured."

It said the fine imposed on the company was payable in three equal annual instalments, starting on October 1 next.

Takeover in 1972: John Murphy and Sons Ltd specialized in pipe-laying and gas mains work in London before being taken over by the London and Northern Group in March, 1972. London and Northern shares slipped 3½ to 36p yesterday after the sentences.

The Murphy firm was built up by Mr John Murphy, who is now an executive director on the main board of London and Northern, which has a stock market value of about £20m. It has wide interests in the building and construction field.

Murphy is owned 75 per cent by London and Northern, which bought an initial £5,700,000 stake in 1972.

Peter Hall, Industrial Correspondent, writes: In his Budget speech last year the Chancellor introduced tougher measures to curb "the lump", or labour-only sub-contracting. Maximum penalties were increased from £500 to £5,000 on summary conviction for those making false statements or furnishing false documents to obtain tax exemption certificates.

It was reckoned that the lump system had cost the Inland Revenue about £10m a year in tax evasion. The new controls made it impossible for "lump" labour to avoid the legislative provisions by setting up one-man companies. It was estimated by Whitehall that about 30,000 such companies had been established over the years to circumvent the law.



Barbara Hepworth Museum: The Government will not contribute anything towards the running costs of the Barbara Hepworth Museum (above) which occupies the sculptress's old studio in St Ives, Cornwall, and opens to the public on April 12 (our Arts Reporter writes). Dame Barbara died in a fire at the studio last May. The museum will go ahead as a privately financed venture, however, and a fund, the Barbara Hepworth Museum Fund, has been established. Dame Barbara's executors, who include Sir Norman Reid, director of the Tate Gallery, have issued a statement regretting the refusal of Mr Hugh Jenkins, Under-Secretary in the Department of Educa-

tion and Science with responsibility for the arts, to refuse funds for the museum. They hope to raise the matter with the Government again in about a year. The upstairs room of the museum contains a representative group of 15 sculptures, mainly carvings, from all periods of Dame Barbara's career. In the garden are 15 more, mainly in bronze.

Judge awards £100 to brave estate agent

Mr James Pearcey, aged 58, of Walthamstow, east London, an estate agent who twice tackled an armed robber in a jewellers' shop, was described by Judge Neil McKinnon, QC, at the Central Criminal Court yesterday as the "bravest man in Britain on the day". He awarded him £100 from public funds.

He said: "The courage he displayed has rarely been seen in peacetime and is usually reserved for battle zones in war."

Mr Alan Green, for the prosecution, said Mr Pearcey tackled Eric Stephens, aged 30, of Lampard Grove, Stoke Newington, during a raid in Walthamstow. Mr Stephens' pistol went off and the bullet hit the floor.

He then struck Mr Pearcey on the head with the pistol. Mr Pearcey went into the office to raise the alarm and the gunman aimed at him and shouted. Mr Pearcey picked up a chair and the gunman ran for 15 years.

Two of the three other members of the gang were also jailed for 15 years. A fourth man was jailed for 12 years.

More effort urged to save threatened marriages

By Our Home Affairs Correspondent

Married couples may get caught up in the legal machinery for divorce when they really want to be reconciled, the National Association of Probation Officers says in a memorandum to the Home Office working party on marriage guidance.

"We believe solicitors or court clerks ought to investigate more thoroughly the possibility of referral to a counselling agency at the initial interview with the client", it says.

That ought to be more than the present mere formality. There should be an obligation to certify not merely whether the possibility of reconciliation had been discussed but that it had been discussed and declined, or attempted and failed.

Less and less matrimonial reconciliation work is coming to probation officers, particularly in city areas. Referrals used to come by way of the magistrates' matrimonial courts, or solicitors or directly. The association suggests that more

legal aid and easier divorce have been responsible for the decrease in referrals.

"An important factor has been the persistence in the magistrates' courts of the old concept of the matrimonial offence, as opposed to the new divorce court principle of 'irrevocable breakdown', which has discouraged many people from going to the domestic court as a first step when their marriage has seemed to be breaking down."

In fairness to solicitors and court staff, the association says, there has been little reaction by probation officers to the falling off in referrals.

"We do not believe that absence of referrals means that people no longer have the problems they used to have but rather that these tend to be sealed off from the probation service."

There should be more use of marital counselling, the association adds. Probation officers had been involved in marital work since the beginning of the century, and such casework was an inescapable part of all probation practice. The association calls for better training in marital work for probation officers.

Teachers 'should not be asked about politics'

By Our Education Correspondent

Teachers should not be asked about their politics or marriage plans when they appear before interviewing committees for posts, the National Union of Teachers said today in a working party report.

Nor should they be asked about their religious beliefs except in the case of appointments to church schools. The guidelines, the first on the appointment and promotion of teachers presented by the union, would also ban questions on whether a teacher would be prepared to live near a school.

The report says teachers should not be asked which union they belong to or whether they would be prepared to take part in extracurricular activities after school hours.

The report will be submitted in the union's annual conference in Scarborough next month. It is likely to be approved overwhelmingly. The union will probably also accept a recommendation that confidential reports on the work and professional standing of a teacher undertaken without the teacher's knowledge should be banned.

Ministers' silence on pay beds attacked

Our Medical Reporter

The Campaign for Independence in Medicine, launched to hit the Government's plans on pay beds and separation of private practice from the national Health Service, today accuses the Government of never having answered the case against its proposals.

Presumably the facts might conflict with political theory, a pamphlet to be sent to Cabinet ministers, MPs, peers and judges says.

The pamphlet, which argues that the Government's plans will destroy a system under which the NHS has worked well for patients, the NHS and the profession since 1948, is part of an attempt to enlist public support. Within the next few days, 3,500,000 leaflets bearing the message "patients before politics", and one million paper badges, will be distributed.

The campaign concludes that the Government's proposals to abolish pay beds and set up a

licensing system for private health facilities implies a casual abandonment of some of the most fundamental liberties of British citizens to a way that could be considered only as hasty, ill-considered and ominous.

The campaign is supported by the British Medical Association, the Hospital Consultants' and Specialists' Association and the Independent Hospital Group, largely representing private health insurance organizations.

Olympics in Glasgow would cost £450m

From A Staff Reporter Glasgow

Glasgow's hope, nurtured for the past three years, that it could stage the Olympic Games in 1984 or 1988 took a sharp blow yesterday. A feasibility study reported that the cost would be up to £450m and leave Glasgow with a deficit of up to £200m.

The study, headed by Professor Ronald Nicoll, of Strathclyde University, was carried out for five Scottish local authorities in the area. "We have gone out of our way to ensure no extravagance," Professor Nicoll said. "There are no funny roofs, for example, as were planned for Munich. The scheme is modestly designed."

To stage the Olympics, Glasgow would have to build a stadium costing £33m in a disused dockside area, with an Olympic village next to it containing permanent housing for 5,000, which would accommodate the 10,500 athletes, officials and trainers. An 11m swimming pool would have to be built in the Corbals and a press centre would be needed as well as upgrading of other buildings. The total cost of buildings for the games would be up to £300m.

It would cost £150m more to organize the games. About £220m would come back in revenue from gate charges, a lottery, and coin and stamp sales. Taking into account an estimate of £30m for facilities likely to be built anyway, that would leave a deficit of up to £200m.

That latest restatement to the extraordinary costs of mounting the Olympic Games comes at an unfortunate time for Glasgow. In a climate of public expenditure cuts, the chances of government approval for such a major programme of public spending must be virtually nil.

Council leader faces trial

Edward Newby, aged 64, leader of West Yorkshire Metropolitan Council, was committed for trial on corruption charges by Bradford magistrates yesterday. Reporting restrictions were lifted at the request of a solicitor for one of two other defendants.

Mr Newby, of Leeds Road, Bradford, was charged with William Clifford Brown, aged 66, former Bradford city architect, of Transmere Park, Guiseley, near Leeds, and Mary Elizabeth Fenelon, aged 60, of Mount Road, Manningham, Bradford.

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NatWest

HOME NEWS

The hidden influence of alcohol on crime

By Peter Evans
Home Affairs Correspondent

Four times as many crimes are committed under the influence of alcohol as is apparent from the usual official statistics, according to a survey published today by the Christian Economic and Social Research Foundation.

That figure was arrived at through the monitoring of 1,220 cases in the courts at Luton and Dunstable last year. Nearly half the men charged with theft offences had taken some alcohol before the alleged offences. More than half the defendants had done so in cases of dangerous or offensive behaviour.

Those associated with the survey say that a full statistical survey would be worth while. They want to influence the drafting of future legislation and decisions of the courts, and to persuade the Government of the need for a revised penal policy.

The survey was initiated by the Chief Constable of Bedfordshire, Mr Anthony Armstrong, in cooperation with the foundation and the division of social responsibility of the Methodist Church.

MPs clash on succession to farm tenancies

Tory MPs protested in a Commons committee yesterday at a government concession widening the scope of eligibility of near relatives to succeed to a farm tenancy on the death of a tenant farmer.

Mr Gavin Strang, Parliamentary Secretary for Agriculture, had just announced during the committee stage of the Agriculture (Miscellaneous Provisions) Bill that he was prepared to accept an amendment from Mr Ceewyn Roderick, Labour MP for Brecon and Radnor. It related to the length of time a near relative must have derived his principal source of livelihood from work on the farm to be eligible to apply to the Agricultural Land Tribunal for the right to succeed.

The Bill set out that he must have derived his principal livelihood from the farm for five out of the seven years before the death of the tenant farmer, but allowed three of those years to have been spent attending a full-time further education course in agriculture.

Conservatives forced a division but were defeated by eight votes to seven, a government majority of one.

Four exam subjects at 16 enough, head says

By Tim Devlin
Education Correspondent

The number of subjects for examination taught in schools to children under 16 should be reduced to four, Mr Patrick Martin, president of the Headmasters' Association, said last night in a speech calling for sweeping changes in secondary education.

He told the association's annual conference when it opened in Cambridge that the subjects should be English, mathematics, a modern foreign language and a modern science. That core of subjects should be taught to all, and pupils should be examined at the age of 16 by a common system of examinations.

Mr Martin, who is headmaster of Warwick School, the independent school at which Mr Mulvey, Secretary of State for Education and Science, was educated, said that secondary school education had swung too far towards national examinations. "It has become too much concerned with earning a living and takes too little notice of the quality of living."

Moreover, because in some primary and secondary schools

the three Rs have been neglected or devalued, and because our society is in trouble in spite of 25 years of pouring rates and taxes into education, there is every sign that either education is to be devalued or teachers are to be brought to heel and told to account to society for the results of their work or both.

Half the school's working week should be given to the four core subjects. The rest would be given to the other subjects, which would not then be cramped by grades, orders of merit and rote learning. Schools had been bedevilled in the past 50 years by the needs of society.

Their products had been labelled, docked and pigeon-holed. Teachers had not been free to educate. A child's career could be blighted by a trivial difference of percentage marks in examination or by whether he or she was selected for CSE or O level.

Geography lessons should show the physical beauty of the world and give attention to conservation. History should be taught to show what was trivial and what important in

human life. Religious education should develop the capacity to wonder and to worship. Physical education should include more health education. Music, art and craft should all strengthen their place in the curriculum.

Lessons on "learning to live" should be part of every curriculum and should teach pupils how to deal with bank managers, tax collectors, social workers, magistrates and politicians so that the difficulties of society should not dominate their adult life.

Mysticism and a sense of mystery were essential to a healthy human life. Too much modern teaching for the 11 to 16 group over-emphasised the rational and under-developed the critical faculty.

The training of reason was too often applied to remembered facts. "I have no brief for a mind stuffed full of information; it has no room for wonder, love, a sense of beauty."

Health education was too often neglected. "Many boys can and do take more care of the engine and body of their motor cycles or motor cars

than they do of the engines and bodies which support them throughout life. Schools and society struggle with the problems of early smoking, a considerable increase in drinking by schoolchildren and a drug scene."

A Mardian visitor would deduce from today's papers, periodicals and films that the only beauty that interested us was female and topless. Children were philistines, slow to recognize beauty of word in poetry or verse, mathematics, painting and the environment.

"Secondary schools need more time for work and discussion which helps to develop a recognition of beauty and an urge to create it in home and environment."

The chief justification for schools was teaching children how to get on with their neighbours. All schools should accept that as the first standard of measurement.

Schools must lead the way back, help us to put the quality of living first and standard of living second, and draw in parents, politicians and the media to support the change of direction.

Confession of robbery was untrue

From Our Correspondent
Edinburgh

John Joseph Boyle, aged 21, of the Scots Guards, who was freed by the Court of Criminal Appeal in Edinburgh yesterday after a nine-year sentence for armed bank robbery, had confessed to the crime.

Mr Boyle, who was arrested and charged at Edinburgh Sheriff Court with robbing the course of justice, was immediately released and charged at Edinburgh Sheriff Court with robbing the course of justice.

The Court of Criminal Appeal was unanimous in quashing the conviction. Lord Cameron said there had been a miscarriage of justice, for which in large measure the "reckless and deliberate action of Boyle himself was responsible."

When Mr Boyle appeared at the Court of Appeal earlier this month it was stated that he was an IRA sympathizer and had been persuaded to hold up the bank to get money for the IRA.

The court was told yesterday that Mr Boyle had been absent without leave from his regiment since September last and was detained by civil police in Glasgow at the request of the Army. He had pleaded guilty to the bank robbery because he preferred to serve a sentence in a civil prison rather than a military one.

He was under the "staggering misapprehension" that he could get a sentence not much above what he would have received for being absent without leave. He claimed to have got his information on the bank robbery from a newspaper.

GLC Tories to allow council house sales

By Christopher Warman
Local Government Correspondent

The Conservatives on the Greater London Council gave a pledge yesterday that when they returned to office they would allow the right to buy his own home.

Mr Horace Cutler, who hopes to lead his party back to power in next year's elections, was commenting on the renewed argument for transferring council housing to tenants, contained in a pamphlet written by Mr Frank Field, director of the Child Poverty Action Group.

It was shameful, Mr Cutler said, that the GLC Lehigh party had denied the right of every council tenant to buy his own home. "They mutter about capitalism and the property-owning community as though to own your own roof is a crime, while they could with one sweep of the pen carry out a vast redistribution of wealth by selling council houses to every tenant and release them from what Frank Field calls serfdom."

Mr Cutler said that when the Conservatives were in power on the GLC from 1967 to 1973 they had sold 16,000 council houses to tenants, but the Labour Party had stopped that policy when it took over in 1973.

The Labour and Conservative parties at County Hall are not quite as far apart as Mr Cutler would suggest. Mr Richard Balfe, chairman of the housing development committee, yesterday welcomed the new discussion, but favoured a universal equity-sharing scheme rather than a straightforward disposal of the stock.

Mr Cutler acknowledged there would always be a need for some rented properties and those tenants would have their rights protected.

"But what we must realize," he said, "is that the country can no longer afford to build, rehabilitate and modernize all the housing that is needed from public funds. The sale of council houses to tenants will therefore help finance other housing."

"Selling a council house to a tenant does not mean you are losing the property and having to replace it with a more expensive one, because the property was not available in the first place as it was tenanted and the tenants were not going to move out."

County repairs: Millions of pounds were being spent by local authorities on repairing badly built council houses, a survey by the magazine *Building Design* said yesterday. It said that many councils were facing huge bills which could have been avoided.

The most common faults were leaks, damp, falling masonry and corrosion, the magazine said.

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Volunteers 'threat to liberties'

By Our Parliamentary Staff

If civil violence increased in Britain civil liberties could be placed at risk more by the activities of volunteers than by the police, Mr Eldon Griffiths, Conservative MP for Bury St Edmunds and an adviser to the Police Federation, told the House of Commons yesterday.

Mr Griffiths said that an increase was more than likely and it would be necessary to supplement the regular police force with more special constables, and possibly civil defence, territorial and other personnel.

If we go down the road to a more violent society in this country it will be necessary to call from time to time for more voluntary support for the civil police. I think we are taking a very big step if we say that they should be required to do their duties as required, shall not be subject to the same sort of complaints procedure as the regular police, in whom we have confidence," he said.

Mr Bruce Douglas-Mann, Labour MP for Merton, Mitcham and Morden, said some people might become specialists because they would get satisfaction from hearing over football supporters or using violence within the framework of law.

Mr Summerskill, Under-Secretary of State at the Home Office, said the main provisions in the Bill were concerned with formal disciplinary proceedings and special constables were not to be brought into the Bill's provisions.

The Court of Appeal dismissed an appeal by Paul Genese, aged 20, for leave to appeal against a sentence of four months' imprisonment, suspended for two years, and a fine of £250 imposed last December by Judge Myrnet at Oxford Crown Court for affray.

Section 19(2) provides: "No court shall impose imprisonment on a person under 21 years of age unless the court is of the opinion that no other method of dealing with him is appropriate."

That restriction led to a sentence of imprisonment in a case where appropriate, and the decision in *R v Ankers* (1975) 61 Cr App R 170; [1975] Crim LR 402 was not authority for saying that a fine in addition to a sentence of imprisonment was necessarily wrong.

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Rent tribunals have jurisdiction over rooms in hostels

Regina v South Middlesex Rent Tribunal, Ex parte Beswick
Before Lord Widgery, Lord Chief Justice, Mr Justice Thompson and Mr Justice Kenneth Jones
[Judgment delivered March 24]

A rent tribunal has jurisdiction under the Rent Act, 1968, to hear the application of a person who has entered into a contract to occupy a dwelling in a hostel, even though that hostel does not have a resident landlord.

The Divisional Court so held in allowing an application directed to the rent tribunal for South Middlesex requiring it to hear and determine the application of Diana Elizabeth Beswick to fix the rent payable for premises in North Common Road, London, and to defer the operation of a notice to quit.

Section 74 of the Rent Act, 1968, provides: "(1) . . . this Part [VI] of this Act applies to a contract . . . whereby one person grants to another person, in consideration of a rent which includes payment for the use of furniture or for services, the right to occupy a dwelling."

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as a residence of dwelling . . . (2) . . . a contract falling within subsection (1) above and relating to a dwelling which consists of one or more rooms in a building in which this Part of the Act applies whether or not the lessee is entitled, in addition to exclusive occupation of that part, to the use in common with any other person of other rooms or accommodation in the house."

Mr Andrew Arden for the applicant.

MR JUSTICE THOMPSON said that the applicant lived in a YWCA hostel and since June 10, 1974, had occupied a single room. That room was her sole home. She was not a temporary resident. In common with other residents, she had the use of a kitchen, dining room, living room, laundry room, bathroom and toilet. On October 27, 1975, she was given notice to quit because it was said that her behaviour had become unacceptable.

On November 5 she applied to the rent tribunal, and on November 27 the members of the tribunal visited the premises. At the hearing that afternoon the tribunal said that it had no jurisdiction to hear the application.

The order for mandamus should go and the tribunal should hear the application.

The Lord Chief Justice and Mr Justice Kenneth Jones agreed.

Solicitors: James Saunders.

ing that the surety was seriously entering a serious obligation and ought to pay the amount promised unless there were circumstances either of means or of culpability which made it fair or just in making the surety pay a smaller sum. Looked at in that way the Southampton case was helpful.

At common law the applicant's obligation was to make his brother physically in the police and hand him over—an operation which might not have been altogether easy. The common law had been supplemented by section 23 of the Criminal Justice Act, 1957, whereby a surety could be invoked by a prosecutor to deliver a person to custody.

Looking at the applicant's case fairly one ought at least to consider that some part of the £2,000 might be restored to her, or left to her hands, because she had made a serious effort to discharge her obligation lawfully although she failed to do it properly.

The magistrate had given no consideration to the fact that she had considered it. On that ground certiorari should go.

Mr Justice Thompson and Mr Justice Kenneth Jones agreed.

Solicitors: Monaghan, Gardner & Co.

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The Lord Chief Justice and Mr Justice Kenneth Jones agreed.

Solicitors: James Saunders.

ing that the surety was seriously entering a serious obligation and ought to pay the amount promised unless there were circumstances either of means or of culpability which made it fair or just in making the surety pay a smaller sum. Looked at in that way the Southampton case was helpful.

At common law the applicant's obligation was to make his brother physically in the police and hand him over—an operation which might not have been altogether easy. The common law had been supplemented by section 23 of the Criminal Justice Act, 1957, whereby a surety could be invoked by a prosecutor to deliver a person to custody.

Looking at the applicant's case fairly one ought at least to consider that some part of the £2,000 might be restored to her, or left to her hands, because she had made a serious effort to discharge her obligation lawfully although she failed to do it properly.

The magistrate had given no consideration to the fact that she had considered it. On that ground certiorari should go.

Mr Justice Thompson and Mr Justice Kenneth Jones agreed.

Solicitors: Monaghan, Gardner & Co.

MR JUSTICE THOMPSON said that the applicant lived in a YWCA hostel and since June 10, 1974, had occupied a single room. That room was her sole home. She was not a temporary resident. In common with other residents, she had the use of a kitchen, dining room, living room, laundry room, bathroom and toilet. On October 27, 1975, she was given notice to quit because it was said that her behaviour had become unacceptable.

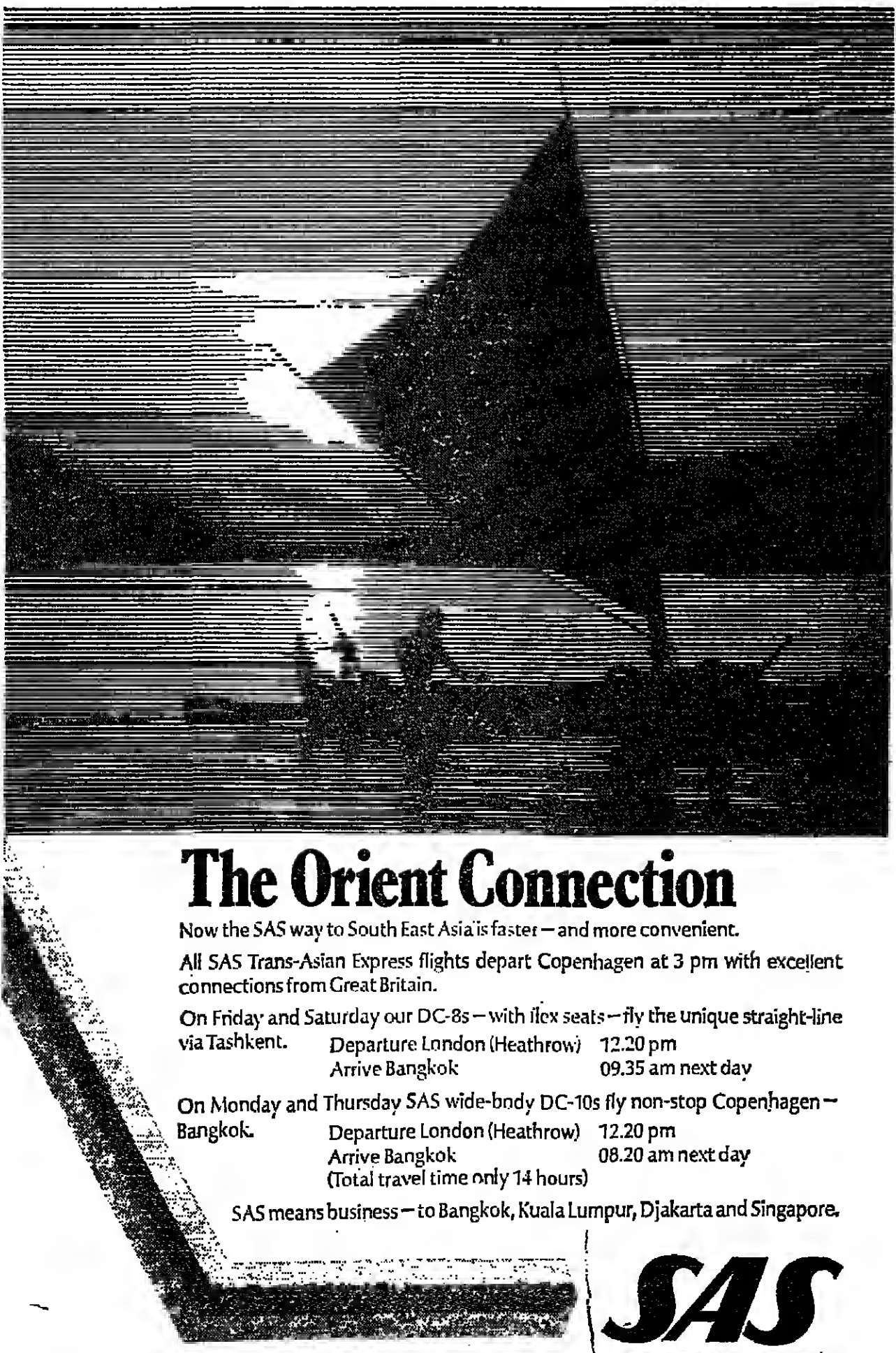
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Mathematics

An article by Professor Hermann Bondi on the teaching of mathematics is published today in <

OVERSEAS

Mayor of Hebron accuses Israeli troops of beating Arab who died after West Bank riots

From Eric Marsden
Hebron, March 25

An Arab, aged 34, died yesterday at Hadassah hospital, Jerusalem, from injuries sustained after disturbances in Hebron. Earlier, Shaikh Muhammad Ali Jaabari, the mayor of Hebron, alleged that the man had been beaten by Israeli troops in an army vehicle and on the street.

The mayor gave me the news of the death of Mr Khimdan Assad Abu Ramila during an interview for which he interrupted a meeting with his councillors and others. He claimed that Mr Abu Ramila had been seized by troops while on his way to the Mosque of Abraham and that, as a result of beatings, he suffered broken bones and internal injuries.

He was given a blood transfusion in a Hebron hospital, then taken to Beit Jalla hospital, near Bethlehem, where doctors considered his condition hopeless. He was moved to Hadassah hospital and died.

Sources in Jerusalem denied the mayor's version that the man had been seized while going to the mosque. They claimed that the incident occurred after a riot by about 100 youths in which roads were blocked, tyres burnt and army and civilian cars bearing Israeli number plates attacked. After an army car had its

windscreen shattered, troops were called in to disperse the rioters.

The sources admitted that Mr Abu Ramila was "probably beaten" in the clashes that followed. They said he was treated by an army doctor at the military government headquarters and that an Arab doctor was advised to take him to Hadassah but instead he was admitted to the Hebron hospital. His condition worsened during the afternoon. A post-mortem examination has been ordered and the funeral delayed. Doctors attending the meeting in the mayor's office confirmed that Mr Abu Ramila had been treated at the Amira Alia hospital in Hebron and said that he had broken bones, internal bleeding and suspected brain haemorrhage.

This is the third death during the present West Bank troubles. The first victim was an 11-year-old boy shot near Bethany a week ago and the second a man, aged 45, who died during a demonstration at Safit, near Nablus. Arabs have been continuing to disturb Muslim prayers at the Mosque of Abraham, he added.

Asked in comment on reports that the settlers had been provided with ammunition by Israeli troops, he said this was true. Weapons had also been given to Jewish schoolchildren at Kiryat Arba. There was no reason for it. Nothing has happened in Hebron to justify the Army seeking help from the settlers.

during last week's conflict in Hebron. He said the incident occurred while three Arabs were being held at Kiryat Arba by the settlers. As a result of the attack, two Arabs were in hospital.

The mayor referred me to the doctors present, one of whom confirmed that he had treated a number of Arabs for dog bites, stitching their wounds and giving injections against rabies. It is understood that police are investigating the allegations against the settlers. The doctors claimed that 10 people had been attacked by the dogs, three within Kiryat Arba and the others in the streets of Hebron.

The settlers of Kiryat Arba had failed to prove that they could live peacefully alongside Arabs, Shaikh Jaabari claimed. "Anybody who thinks such settlements could be the basis for peaceful coexistence is mistaken." The Jewish settlers were continuing to disturb Muslim prayers at the Mosque of Abraham, he added.

Asked in comment on reports that the settlers had been provided with ammunition by Israeli troops, he said this was true. Weapons had also been given to Jewish schoolchildren at Kiryat Arba. There was no reason for it. Nothing has happened in Hebron to justify the Army seeking help from the settlers.

Soviet hint of accord in southern Africa

By David Spanier
Diplomatic Correspondent

Both Britain and the Soviet Union appear to be satisfied that relations are on a sensible and constructive course. The official statement issued after the visit of Mr Gromyko, the Soviet Foreign Minister, ended yesterday, had little substance to it, but Mr Wilson told the House of Commons that Mr Gromyko had given a "firm and unequivocal assurance" that the whole of the £950m credit already provided for will be taken up in the near future. This is an issue close to the Prime Minister's heart, as he negotiated the original deal and only £25m, has been used so far.

The main interest in the talks was southern Africa, on which the two countries agreed to disagree. The statement contains one sentence on the subject: "There was an exchange of views on the situation in southern Africa, in the course of which the two sides set out their respective positions."

There is some satisfaction in London, however, that Mr Gromyko's point, that détente, like peace, was indivisible, was well noted by Mr Gromyko. The Soviet Union is concerned at the evident disappointment in the West with the results of détente.

Mr Gromyko was pressed about Soviet intervention in southern Africa at his press conference before leaving for Moscow. He gave little away. His discussions with Mr Wilson and Mr Callaghan, the Foreign Secretary, had been "very specific and concrete".

"We expressed our understanding that the question of Angola, and the countries around Angola, could be resolved constructively, given certain conditions, and in fact something of the kind... [here he interrupted the interpreter] which does not mean I am talking about preconditions... Let me say here something of that sort is in the making and allow me to go deeper into that."

All this was presumably a reference to the negotiations, now over, in which South Africa has been seeking from them.



At his fingertips: Mr Gromyko, the Soviet Foreign Minister, emphasises a point during his press conference in London.

Angola, through Britain, assurances about the safety of the Caluque dam.

Pressed about Soviet intentions in the rest of southern Africa, Mr Gromyko gave a somewhat enigmatic answer. "Frequently the Soviet Union is referred to when the subject of Rhodesia or Namibia comes up," Mr Gromyko said, "but the Soviet Union has nothing whatever to do with either of those areas. When we read the map we read the names as well as any other country. But we have nothing whatever to do with them."

On the American warning to Cuba, however, Mr Gromyko allowed a note of asperity to creep in to his answer. "I should not like to discuss here any questions relating to Cuba," he said.

"The Cuban leadership did not ask any of us to discuss here any questions relating to Cuba."

"The Cuban leadership itself has made its own statements concerning its position. As for all these warnings and statements, I can only say the less there are such warnings and statements, the better it would be."

Mr Gromyko was asked about the four-nation African summit in Rhodesia ended today, with no apparent success in ending the nationalist factions in preparation for what most observers here regard as an inevitable civil war in the rebel British colony.

No statements at all were forthcoming from the Zimbabwe Government and President Machel of Mozambique and President Sir Seretse Khama of Botswana left off without making any comment. All that President Nyerere of Tanzania, who chaired the meeting, would say of the summit was that he had "nothing, nothing, absolutely nothing" to say, adding

Argentina all quiet as junta tightens grip

From Our Special
Correspondent

Buenos Aires, March 25

Argentina returned to calm today as the military junta which overthrew President Maria Estela Peron tightened its grip on the country and carried out a "cleansing" operation chiefly aimed at left-wingers and Peronist labour leaders and politicians.

For the second successive day there was no sign of resistance to the coup d'état which ended nearly three years of Peronist rule.

Throughout the country the hand-over from civilian to military authorities was carried out smoothly and untroubled. In Buenos Aires officers took power in an eight-man national caretaker Cabinet; and in the 24 provinces the governors and other elected authorities were replaced by the military. Army-owned vehicles have withdrawn from the centre of the capital and only an occasional soldier in battledress can be seen guarding public buildings.

But schools and universities remained closed by military order. Banks were also shut and accounts frozen as the military inspected them for evidence of "disorder and corruption" under the Peronist regime. The occupation has been levelled at the former Government from all sides during its closing months in office.

For most Argentines the chief impact of the coup today was the sudden muffling of the press, despite the fact that the military censors before publication, and the result today was that the newspapers carried the news of yesterday's 34 military communiqués in place of news reports on the coup. The junta has said this will be only a temporary measure.

Several newspapers printed editorials commenting on the inevitability of the military takeover and cautiously welcoming it. "A new stage is opening with reborn hopes," declared the most circumspect independent Clarin.

Perhaps the most astute comment, however, came from the English-language Buenos Aires Herald, which noted that the junta were carrying out "tough measures couched in moderate language".

Arrests throughout the country, which began as the tanks rolled into Buenos Aires on Wednesday morning, were reliably reported to be continuing on a large scale in the industrial city of Cordoba. It was reported that hundreds were arrested last night. Cordoba is the centre of Argentina's motor industry and renowned as the country's most volatile and law-oriented city.

People throughout the country have been officially advised to keep off the streets at night as troops carry out arrests during the hours of darkness. The military continued to refuse all comment on the arrests, and estimates so far range from 500 to 2,000, many of them prominent figures under the deposed regime.

Meanwhile, the junta formed by the Army commander, General Jorge Rafael Videla, the Navy commander, Admiral Emilio Massera, and the Air Force commander, Brigadier Orlando Agosti, began issuing a stream of decrees wiping yesterday's military communiqués into law.

One decree ordered civilians to hand over all arms and explosives within 48 hours or face 10 years' imprisonment. Another introduced the death penalty or indefinite imprisonment for sabotage, arson and bomb attacks and authorized security forces to shoot saboteurs on sight. The penalties apply to offenders aged over 16 years.

Other decrees suspended political and trade union activities, even ordering the emblems of political parties to be removed from their headquarters and branch offices. The decrees also ordered that the process of recovery of the state at all levels and in all functions is carried out, one decree stated.

China sends Egypt free spare parts for MiGs

From Our Correspondent
Cairo, March 25

China has provided Egypt with engines and large quantities of spare parts and other technical equipment for its air force, the Middle East News Agency reported tonight.

The Soviet Union equipped Egypt with MiG fighters; China used MiGs supplied by the Soviet Union before relations deteriorated as prototypes for its own aircraft industry so that it has stores of matching parts.

The report follows another bitter attack by President Sadat on the Soviet Union yesterday for refusing to supply Egypt with its military needs and in reschedule debts.

Earlier this month, announcing the decision to terminate the 1971 treaty of friendship and cooperation with the Soviet Union, he said the Russians had even refused to overhaul the MiGs or to allow India to do so. China attacked the Soviet attitude to Egypt and praised Egypt for having the courage to end the treaty.

The news agency said China had supplied the equipment free of charge. When Egypt offered to pay, the Chinese Government refused saying: "We are not weapon traders."

Critics of Israel hope to win West over

From Peter Strafford,
New York, March 25

New proposals were put before members of the United Nations Security Council today for a resolution that would be critical of Israeli behaviour in Jerusalem and the West Bank. They were suggested by a group of non-Arab countries, whose hope was that the Americans would not veto them.

But the Israelis mounted a counter-attack by making a well-publicized protest to the Americans about the speech on Tuesday night by Mr William Scranton, the new representative, who was sharply critical of certain Israeli policies.

The council debate, called by Libya and Pakistan on behalf of the Islamic group, has been discussing Israeli policies in the occupied territories, including Jerusalem, but it was transformed from a routine exchange of charges between Israel and the Arabs by Mr Scranton's speech.

Mr Scranton emphasized that he was only following previous American attitudes towards Israel in these areas. The sharpness of his tone, however, when he described Israeli settlements as illegal, appeared to introduce a new element.

Mr Simcha Dinitz, the Israeli Ambassador in Washington, protested in telephone calls to Dr Kissinger, the Secretary of State, and Mr Joseph Sisco,

the Under-Secretary. They reflected Israeli dismay over the new turn of events, and the vigorous reaction in Israel itself.

The objection was to the tone and the substance of several of Mr Scranton's remarks, and also to the fact that the speech was made at a meeting at which the Palestine Liberation Organization was present.

On the Arab side, there was quiet satisfaction about Mr Scranton's speech, which was in marked contrast with those of Mr Daniel Moynihan, his predecessor. The hope today was that it would lead the Americans at least to abstain in a vote on the resolution being proposed.

The wording was toned down in order to make it less offensive to the Americans, as well as to other Western countries. Instead of "condemning" Israeli actions, for instance, it proposed "deploring" them; it took out the word "repressive" in referring to Israeli activities.

One of the principal points in the proposed resolution was criticism of Israeli efforts to change the status of Jerusalem. Another called on Israel to refrain from measures against the Arab inhabitants and a third urged Israel to desist from expropriation of Arab property and the creation of settlements.

Three killed in Namibia border clash

Pretoria, March 25—A South African soldier and two black guerrillas were killed in a clash last night in the border area between South-West Africa (Namibia) and Angola, the Defence Ministry said here today.

The statement did not identify the guerrillas, but informed sources said they were believed to be members of the South-West Africa People's Organization (SWAPO). As usual, the statement did not pinpoint the exact location.—Reuters.

African presidents fail to end ANC rift

From Our Correspondent
Lusaka, March 25

The four-nation African summit on Rhodesia ended today, with no apparent success in ending the nationalist factions in preparation for what most observers here regard as an inevitable civil war in the rebel British colony.

No statements at all were forthcoming from the Zimbabwe Government and President Machel of Mozambique and President Sir Seretse Khama of Botswana left off without making any comment. All that President Nyerere of Tanzania, who chaired the meeting, would say of the summit was that he had "nothing, nothing, absolutely nothing" to say, adding

"but we had a very good meeting".

However, sources close to the Zimbabwe Government indicated that, with the door to a peaceful constitutional settlement apparently closed by Mr Ian Smith, the Rhodesian Prime Minister, the main topic was how a guerrilla war should be launched and not whether it should be war or peace.

In consequence, the four presidents were also trying to bring together Mr Joshua Nkomo and Bishop Abel Muzorewa, the two leaders of the opposing factions of the African National Council.

That the summit failed in this respect became evident from comments afterwards.

Concorde ban rejected in Senate

Washington, March 25—The American Senate today rejected a proposal to ban the Anglo-French Concorde supersonic airliner from landing at United States airports.

By 50 votes to 31, it threw out an amendment proposing the ban by Senator Lowell Weicker (Republican, Connecticut).

Two other anti-Concorde amendments to the same Bill, a routine piece of legislation on airport development, were due to be voted on later. But the strength of the opposition to Senator Weicker's amendment made it likely they, too, would be rejected.

Senator Weicker's amendment would have banned the Concorde from landing at United States airports, except in an emergency. An amendment to a similar Bill, already approved by the House of Representatives, would ban Concorde flights to all American airports except Dulles airport near Washington.

The vote on Senator Weicker's amendment indicated apparent support for the action on Mr William Coleman, Secretary for Transportation, allowing the airliner to land at New York and Washington for a 16-month trial period, and a weakening of the anti-Concorde forces. Last July, the Senate defeated a Concorde ban by a much narrower margin of 46 to 44.

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US protest to Russia over bomb threat to embassy

From Edmund Stevens
Moscow, March 25

Mr Walter Stuessel, the United States Ambassador in Moscow, today sent a written protest to the Soviet Foreign Ministry over a bomb threat to the embassy. It was the second protest Note in two days.

Today's incident began at lunchtime when a telephone caller, speaking in English, said a 2lb bomb had been placed on the embassy ground floor. Staff evacuated the ground floor, but no bomb was found.

The previous Note was prompted by a spate of telephone calls to embassy staff threatening retaliation for the harassment of Soviet mission members in New York by Jewish activists, and for the bombing of the New York Offices of Aeroflot.

Soviet sources also contend that the recent car accident in which Mr Jacob Malik the

Soviet representative at the United Nations and his wife were injured, was deliberately contrived.

Both embassy Notes said the New York authorities were doing all possible to prevent further hostile acts against Soviet persons and property, and that such inspired retaliation served no useful purpose but only aggravated matters.

Yesterday's Note asserted that in the view of the embassy, the harassing telephone calls, received by some 50 staff members from people identifying themselves as "a neighbour" or "a worker", were not spontaneous.

These latest acts of harassment are an ominous reminder of events in the winter of 1970-1971, when outrages perpetrated by the so-called Jewish Defence League resulted in Soviet retaliation.

Compromise on world chess

Belgrade, March 25—Anatoly Karpov, the world chess champion, has accepted a compromise formula to defend his title in 1978.

Dr Max Euwe, Dutch President of the World Chess Federation, has proposed the title should go to the first person to win six victories in the title match. The reigning champion would retain his title in case of a 5-5 tie, but would commit himself to a return match with the challenger.

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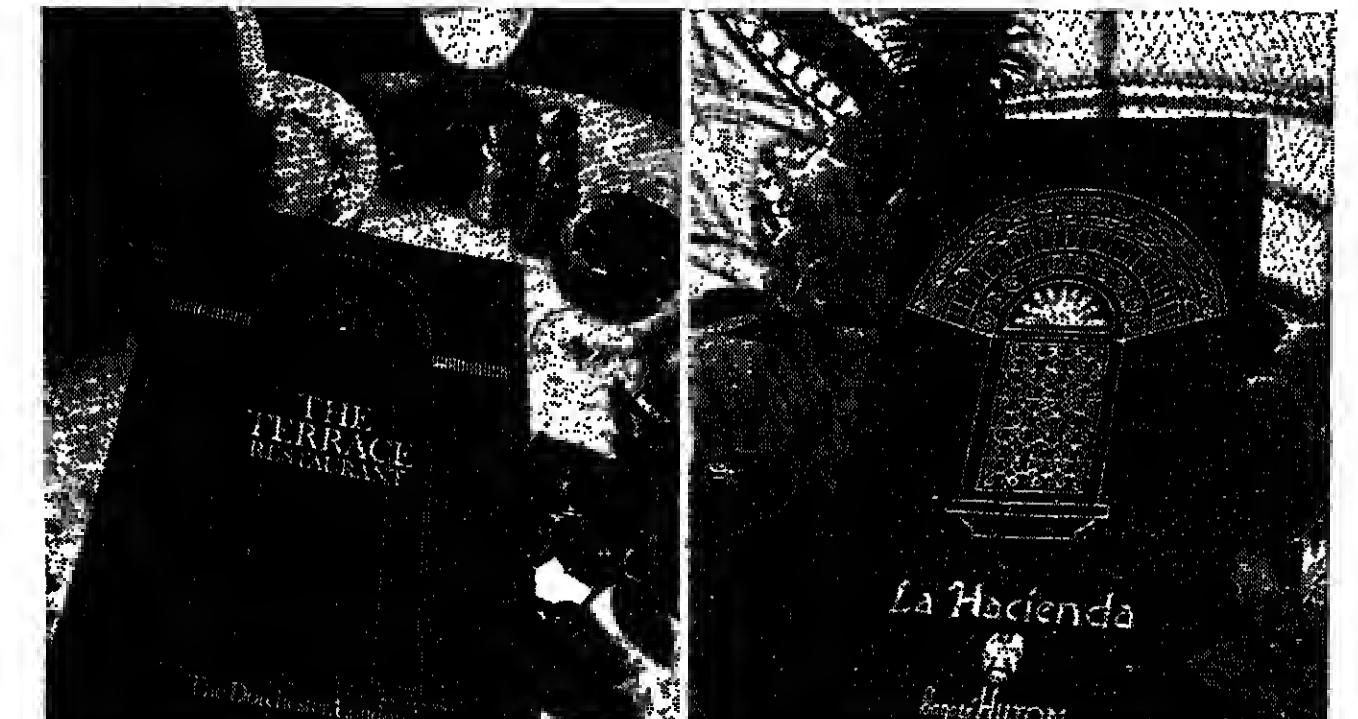
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Mr Carter under fire from Democratic rivals as Wisconsin campaign begins

From Fred Emery
Washington, March 25

The primary election campaigns have now switched to Wisconsin and New York, where the vote is being held on April 6. Mr Jimmy Carter, the Democratic front runner, who is being increasingly regarded by his rivals as the man to beat, picked up his first endorsement from New York.

As a Washington outsider, Mr Carter has deliberately kept his distance, but now he is trying to impress his credentials on the party's liberal establishment.

Senator Joseph Biden, one of its recent young recruits, today declared: "Jimmy Carter is a winner and I'd like to help him get to the White House." He added that Mr Carter sensed the need to deal with existing problems in "ways which appear to be unorthodox to many traditional politicians but which are welcomed by a public looking for a new leadership."

In contrast, Representative Morris Udall, the lone credible "progressive" on the Democratic left, is pouring scorn on Mr Carter in his Wisconsin appearances. Mr Udall has to win in Wisconsin to remain credible, and he sees Mr Carter as his biggest threat.

Last night, Mr Udall was delivering his partisan audi-

ences with jokes about Mr Carter being on all sides of political issues. He took abortion as an example of what would happen if Mr Carter and President Ford ended up as candidates. Mr Ford, he said, would be somewhere in the middle, with Mr Carter on either side of him.

Only one candidate—and a scarcely considered one—has taken up the issue of Dr Kissinger's writings to Cuba. Accusing the Ford Administration with "planning an act of war", Mr Fred Harris has written to the Senate foreign relations committee demanding that it should hold hearings on the plans, he said, he had heard from "trusted sources" in recent years the Secretary of State has not disavowed newspaper speculation that he

United States might attempt a blockade of Cuba if Cuban troops were unleashed against Rhodesia or Namibia.

Mr Harris said his sources had confirmed the reports. It is known that several senators attended a secret briefing given by Dr Kissinger last week. He was due to meet Mr J. Callaghan, the Foreign Secretary, who is to visit Hongkong and China in May.—AP.

The point of Dr Kissinger's warning was to make sure that the Soviet Union prevents Cuba from taking such action in southern Africa. His difficulty, with a recalcitrant Congress, was to convince everyone it was not an empty bluff.

The White House and Pentagon spokesmen later confirmed that contingency plans for military action against Cuba were being reviewed. "A number of things are under study," Mr Ron Nessen said at the White House.

The Pentagon spokesman said: "The joint chiefs of staff are participating in a National Security Council review of possible actions which might be taken with regard to Cuba."

US Elections 1976

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All Americans urged to get 'swine flu' vaccination by autumn

from Fred Emery

Washington, March 25

President Ford has started Americans by urging all 215 million of them to get vaccinated by next autumn against a so-called "swine flu". The vaccine is to be manufactured under a crash programme with 135m of government funds.

The President said he was taking emergency action to forestall what eminent scientists had persuaded him was the real possibility of an epidemic next autumn. An outbreak of the "swine flu" strain—or something suspected to be one to it—for the first time since the deadly epidemic of 1918-19, was recorded last month among Army recruits at Fort Dix, New Jersey. As many as 500 men were reported affected and one man died. However, the White House said there are only 12 confirmed cases at Fort Dix. In 1919 some 20 million died of "swine flu".

The President was advised, among others, by Dr Jonas Salk and Dr Albert Sabin, who both had credit for the anti-polio vaccine. They made a rare joint appearance yesterday with the President when Mr Ford announced he would ask Congress for appropriate \$135m to cover the cost of the vaccine.

"No one knows exactly how serious this threat can be", Mr Ford said, evidently anticipating the scepticism of every one getting their "Ford flu" injections. But he went on: "Nevertheless we cannot afford to take a chance with the health of our nation."

The injections will not be free as has been widely assumed. After all, Mr Ford, a champion of free enterprise, and already under surprise attack as being part of the Washington establishment, could hardly afford to appear to be providing a form of socialized medicine, however preventive.

The problem will be to mobilize the manufacturers and the local hospitals and doctors. Nothing on even half this scale has been attempted before. Manufacturers, of course, said they could do it—provided the Government supplied the money.

At the moment only small batches of the new vaccine have been produced, and none is expected to be available until late summer, before which time

large-scale tests will need to be conducted for its safety.

The only comparable mass inoculation was undertaken with anti-polio vaccine in the early 1960s. More than 100 million persons here were treated, but it took over one and a half years.

Geneva, March 25.—Officials at World Health Organization (WHO) headquarters, which said a month ago there was no evidence of a spread of the "swine flu" virus, reacted with surprise to President Ford's plan to vaccinate every American.

A spokesman emphasized that so far there has been no appearance of the virus outside the Fort Dix camp.

Since the isolation of the virus at Fort Dix, WHO centres in Atlanta, Georgia, and in London have started work on preparing a vaccine.—AP.

Our Medical Correspondent writes: The minor outbreak of swine influenza at Fort Dix is the only report so far of human infection with this variant of the influenza virus. The anxiety among health officials here and in America is due to the close resemblance of the virus to that responsible for the worldwide epidemic of Spanish influenza in 1918-19 which killed millions of healthy young adults.

Since the 1920s, the only reports of that virus causing outbreaks of influenza have been among pigs, and the recent American outbreak is the first reliable report of its responsibility for the spread of human infection.

Most influenza viruses are very similar in their chemical and physical makeup, so that an illness due to one gives some immunity against the others. However, the swine influenza virus is substantially different from those responsible for recent outbreaks in Britain so that the only people who might be expected to be immune are those who survived infection in 1918-20.

At present it is impossible to say how serious any new outbreak of swine influenza might be. Though the chances of the virus causing a major epidemic may seem small, health authorities throughout the world are cooperating in precautions. Manufacture of a vaccine is straightforward but since the virus is unusual pilot tests will be needed to establish the number and size of the doses.

Chief Minister to resign in Malaysian state

Kuala Lumpur, March 25.—The Selangor State Assembly today passed a vote of no confidence in Datuk Harun Idris, the Chief Minister.

The vote followed Datuk Harun's expulsion from the ruling United Malays National Organization (UMNO) last Thursday by the party's supreme council, which accused him of creating disunity and causing public confusion.

Datuk Harun said he would resign. Last December he went on leave to face charges of corruption involving more than £180,000 and breach of trust concerning stocks and shares worth nearly £1.6m.—Reuters.

Las Vegas hotel staff strike leads to violence

Las Vegas, March 25.—A strike by hotel employees has led to outbreaks of violence and dimmed the neon brightness along Las Vegas's two-mile gambling strip.

Police reported bombings, shootings and stone-throwing in the last 48 hours as the strike at 15 establishments, called to back pay demands, entered its second week. They have arrested 72 striking kitchen hands, bartenders, musicians and stagehands trying to block roads to prevent gamblers reaching the casinos.

Eleven hotels have closed, and four have stayed open with reduced services but with gambling and drinking.—Reuters.

News balance ordered as Peru dismisses editors

Lima, March 25.—Peru's military Government has dismissed the editors of six national newspapers and told the replacements to print more balanced and less alarmist news.

The immediate effect of the sudden changeover has been a marked reduction in coverage of communist-backed strike calls and an easing of extreme left-wing views. The new editors appointed to run the government newspaper Cronica and five of the six national dailies, which were expropriated from private owners by General Juan Velasco Alvarado, the former President, are known as moderates.

Peru's self-styled revolutionary Government has also imposed controls which could prevent journalists from launching any new publication not already in circulation. Labour guarantees in all newspapers have been suspended for 90 days, but the new editors, who took over on March 15, say they do not plan mass dismissals.

They replaced a group of left-wing intellectuals who were appointed by General Velasco before he was ousted in a peaceful coup last August by President Francisco Morales Bermudez. Only Señor Cesar Miro, who was named editor of Ojo earlier this month, survived the purge.

"We're going to give a more balanced view of things", Señor Juan José Vega, the new

editor of *Expresso*, said. Señor José Vega, a history professor and former journalist, scrapped *Expresso's* extreme left-wing political column as soon as he became editor.

Four political writers on *Correo*, which printed hard-hitting left-wing comment, resigned when the new editor, Señor Asenor del Pozo, took over. The pro-communist weekly magazine *Marka* described the appointments as a lurch to the right.

Journalists have petitioned the Government to open talks on the whole future of the national press. "Apart from being worried that we may lose our jobs until the 90-day period is up, many of us are concerned about the future of the newspapers", one journalist said.

He said that Government promises to hand over each national newspaper to a representative sector as part of a revolutionary plan to restructure Peruvian society was not taking place.

The handover, in which for example *Comercio* would become the rural workers' daily, and *Expresso* the newspaper of the education sector, should have been completed last July but was postponed for a year.

"If the Government genuinely wants to hand the papers over to these sectors, then it should stop appointing editors and leave the sectors to make their own decisions", the journalist added.—Reuters.

Lady Kerr's divorce was speeded up, MPs told

Canberra, March 25.—Mr Robert Ellicott, the Attorney-General, has admitted that the wife of Sir John Kerr, the Governor-General of Australia, was given special treatment to divorce her former husband and marry Sir John.

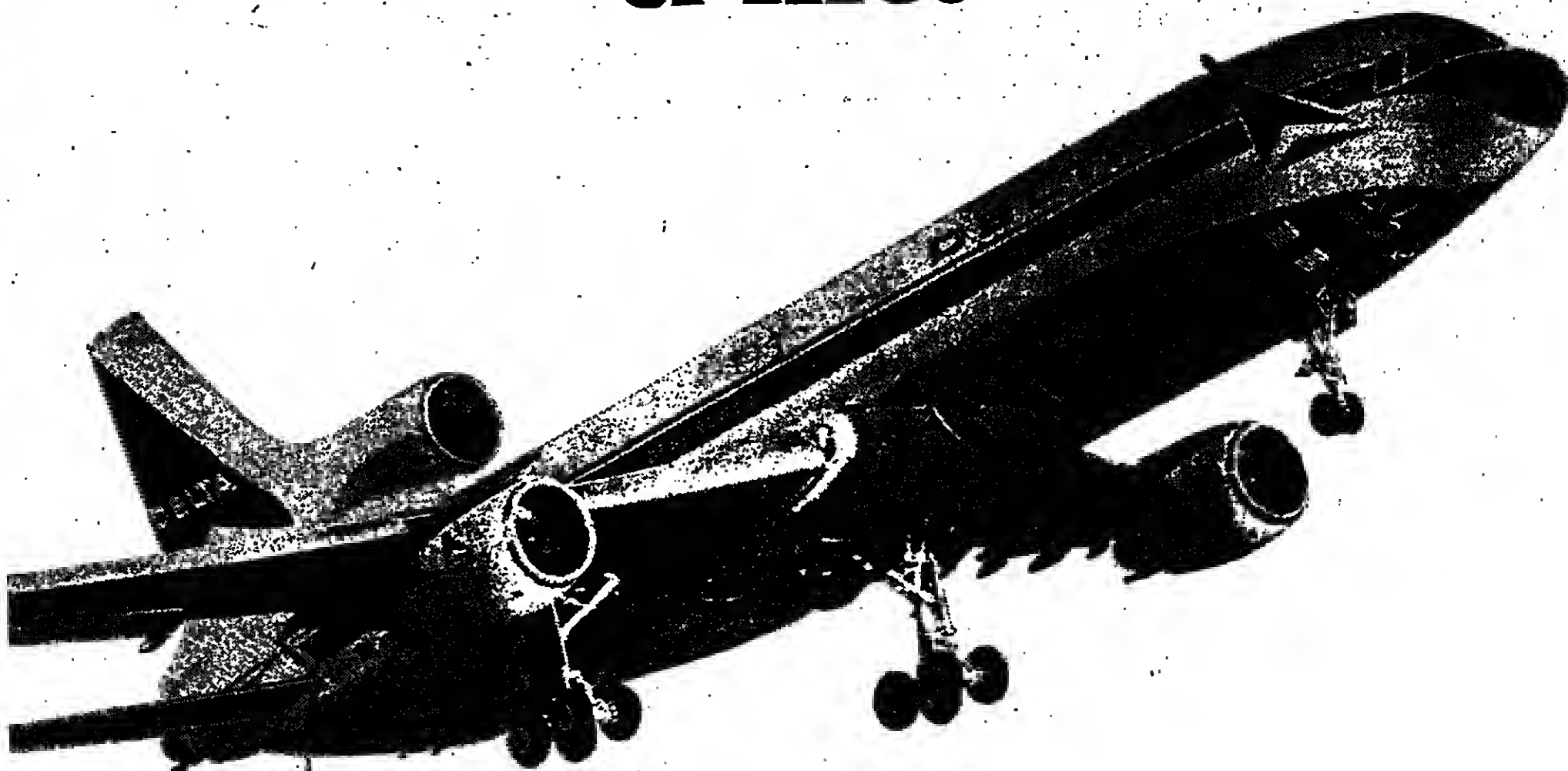
Mr Ellicott said that Lady Kerr, formerly wife of Judge Hugh Robson, had her divorce proceedings held out of normal court hours, the case was not listed, and the decree nisi was made absolute on the same day. She married Sir John 11 days later on April 29 last year.

The Attorney-General told the House of Representatives that information he gave Mr Gough Whitlam, the Labour Party leader, in answer to questioning on Tuesday, was not correct.

He said then that particular people or groups of people could not get divorces quicker than others.

Mr Ellicott said yesterday it was now clear that Lady Kerr's case had not been treated in the same way as others.—Reuters.

Every TriStar sold gives the British economy a lift.



With TriStar and the RB.211, the British economy has a lot going for it. Lockheed puts Rolls-Royce RB.211 engines on all three models of TriStar in production. And there are more on the way. The RB.211 is the largest export programme in British aviation history.

Engines, spare engines and spare parts sales total more than £300 million to date.

A staggering figure. And it reflects another unique aspect of the RB.211 programme. For other big jet producers, engine manufacturers have to compete for their sales. The RB.211 is the only engine powering TriStar.

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The big airliner with the big future.

سكوت الامل

ENTERTAINMENTS

1



This happened with her novel
The Battle of the Villa Fiorita.

about \$1.20, which is about double the British price even when adjusted to higher wages and other costs in living. Support tighties, therefore, are about \$2.50, so we are doing pretty well with Pretty Polly "Stand Easies" at 90¢ (after a year at 85¢). To follow them come "Non-Stops" which give added support to legs, leaving them as sheerly exposed as any ordinary tightie. The emphasis is on "added support," as these are not your familiar stronger support tighties, but at 65¢ the pair, who is complaining? Trio Tighties, which combine a Tendrelle yarn leg with a Lycra control girdle top, are also going to be 65¢. What be the store's account as to how sure they are? Then I watch the multiple packs of two, three or five pairs begin to appear, as I am sure they will. And I reckon it will not be many months before you can support (lightly) for 50¢ a pair.

By this time next year, it will be out of step to be totally unsupported. All it needs is the extra push this kind of leg and rummy wear is about to get. Even so, fashions like this take a long time to catch on. To optimists reckoning for 1980 before control tighties come anywhere near 10 per cent of all hosiery sales. Then, they tell me, the demand will rush ahead for "sheer, sexy support." I wish I knew quite what that is.

Sheila Black

Keymarkets do not want their price comparison to be published. But another is available in the form of the weekly survey of supermarket prices published by the Enterprise consumer group in Hampshire.

Keymarkets quote 12.3p for a 13oz pack of 10 Birds Eye peas. In the Enterprise survey, that is matched by the Carrefour Hypermarket at Eastleigh, Torberrys supermarket in the same town, Tesco and Sainsbury. Maccormack is quoted at 12p and five stores at more than 12.1p.

A packet of 10 Birds Eye cod fish fingers are offered by Keymarkets at 36p. Six stores in the Enterprise survey beat that price and four fail to match it.

Clearly the worth of 163 offers is not being fully exploited by the three alone. But Keymarkets give no help to the shopper who wants to compare their prices with those of rivals.

Hugh Clayton

Sheila Black

Hugh Clayton

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A. M. Joeke

The author is a consultant
psychologist.

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SPORT

Boxing

Conteh takes blame for breaking his hand again

By Neil Allen

John Conteh's defence of the world light-heavyweight boxing title against Alvaro Lopez, of the United States, which was to have been staged in Kampala on April 1, has been postponed again. Conteh has broken his right hand in training and the injury was confirmed by an X-ray examination yesterday.

The new date for the contest, which had already been postponed once because Lopez had a cold, as provisionally been set for the second week in June. Conteh will fly to Uganda today to discuss the matter with President Amin. "I will explain the situation personally to the President and arrange the new date."

Conteh intends to carry on training. "I shall do everything I can to get my hand back to normal. It won't be completely broken as I shall have something to work on. I shall stay in Kampala. The injury was sheer bad luck. I had a sore and on the middle finger of my right hand. I was wearing new gloves and unconsciously I was not closing my hand properly. I had been told after last night's training that I was sure to win. It was my own fault for taking the trouble to clip my fingernails before I started training."

Conteh's manager, Mr. John Smith, said: "I am not worried about having a permanent weakness in my right hand. I'm sure my hand will be stronger than ever. Brave words. But this new postponement comes at the worst time for a young man who desperately wants to cash in on the world title. He has been out with leading promoters in this country and the United States."

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Football

England are beginning to see the light

Don Revie, the England manager, is beginning to "see a little bit of daylight, at least through the crack of the door." That was his verdict after watching the under-23 team win in Manchester on Tuesday and the seniors beat Wales in the centenary international at Wrexham on Wednesday.

"I was tremendously pleased with both wins," he said, "but not just because they were wins. It was the way the players reacted to each other despite the fact that they had not been together that long. It appears that they are now getting used to each other."

Mr. Revie will now get down to planning his parties for the British championship, the American tour and the World Cup qualifying clash with Finland during May and June.

Goals from Kennedy and Taylor, the second-half substitutes, were the new recruits—sent England on the road yesterday. The goal came from Curtis in the last minute—but it was West Ham United's Brooking who scored the first goal for the team. His big right tackle so dominated the midfield that he demoralized the Welsh.

"I've got nine caps but, surrounded by so many newcomers, I felt for the first time that I was one of the seniors. I had to do a lot of things I've never done before."

England's tactics were more precise and determined than those of Wales. The rules have not been changed yet, but some tentative rules were announced: The fight will end after 15 rounds, with the winner of a round getting five points and the loser four or less. If a player is knocked out, he is awarded a knockout or wrestling hold. A player who is knocked down by a punch, or when a contestant's shoulders are pinned to the mat for a count of three.

Malcolm Suck made his first appearance for the team in the season for Middlesex against Manchester United at Old Trafford tomorrow. The 22-year-old Suck, who has been with the team since 1974, will be in the starting line-up.

Cruyff quits in 1978 Amsterdam, March 25.—Johan Cruyff says he will quit the game in two years' time. He will not play in the 1978 World Cup in Argentina. "I want to stop while I'm still at the top and the World Cup is just a little too late for me," he declared.

Women's hockey England lose ground and finish third By Joyce Whitehead

After being unbeaten at the end of the first day's play to the British Universities group hockey tournament for women at York University, England lost ground yesterday and finished third. It was Scotland who came out on top. This is their eleventh win in the tournament. England, who were last year's winners, romped home to a 7-0 win over England B yesterday. Scotland and Wales took second place.

Scotland, playing better hockey, beat England in the final. The match was a close one, but Scotland's superior play was the deciding factor. England's defence was shaky, and Scotland's attack was relentless.

Skating A year for history in women's Alpine By John Hennessy

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Miss Mittermaier's haul included the Olympic downhill, slalom and giant slalom championships, Olympic giant slalom silver medal, world championship (combined), and the World Cup. Only Kathy Krainer's unexpected win for Canada in the giant slalom at Innsbruck denied her the grand slam of all five titles. So far achieved by only Jean-Claude Killy, of France, Miss Mittermaier has thus surpassed the achievement of Nancy Greene (Canada), who won three titles in the 1974-75 season.

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World Cup final placings

Men

Women

George is out for at least three weeks

Dave Mackay, the Derby County manager, yesterday definitely ruled his striker, Charlie George, out of next week's FA Cup semi-final against Manchester United at Hillsborough.

George, who has scored 24 goals for the club this season, dislocated a shoulder during Wednesday night's 1-1 draw against Stoke City and is expected to be out of action for at least three weeks.

George was taken to the Derbyshire Royal Infirmary after being involved in a collision with Stoke's Dennis Smith midway through the first half. The incident resulted in a shoulder dislocation.

"I was tremendously pleased with both wins," he said, "but not just because they were wins. It was the way the players reacted to each other despite the fact that they had not been together that long. It appears that they are now getting used to each other."

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Cricket

Richards hits second hundred in series

Port of Spain, Trinidad, March 25.—West Indies, having recovered from early shocks, have scored 237 for seven at the close of the second day's play in the second Test match against India at the Queen's Park Oval here today.

The West Indian recovery was due to a partnership of 123 for the fifth wicket between Richards and Murray, who came together when the West Indians were struggling to 50 for four. Richards, who made 130, hit his second century in his only innings in the first Test at Bridgetown.

He survived a stumping chance on 83 when the wicketkeeper, Kirman, failed to take the ball off Richards. Richards had jumped down the wicket and missed a ball from Venkataraghavan.

By late afternoon the West Indians were struggling at 72 for four wickets after a sensational morning's play. They lost a wicket in the first two overs of the match, which started a day late because of yesterday's complete washout. They were always under pressure.

The left-handed opener Frederick Fell in the second ball of the first over and played the ball off the back foot and played the ball off his middle stump.

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Port of Spain, Trinidad, March 25.—West Indies, having recovered from early shocks, have scored 237 for seven at the close of the second day's play in the second Test match against India at the Queen's Park Oval here today.

The West Indian recovery was due to a partnership of 123 for the fifth wicket between Richards and Murray, who came together when the West Indians were struggling to 50 for four. Richards, who made 130, hit his second century in his only innings in the first Test at Bridgetown.

He survived a stumping chance on 83 when the wicketkeeper, Kirman, failed to take the ball off Richards. Richards had jumped down the wicket and missed a ball from Venkataraghavan.

By late afternoon the West Indians were struggling at 72 for four wickets after a sensational morning's play. They lost a wicket in the first two overs of the match, which started a day late because of yesterday's complete washout. They were always under pressure.

The left-handed opener Frederick Fell in the second ball of the first over and played the ball off the back foot and played the ball off his middle stump.

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Badminton

Mrs Gilks moves slowly and nervously forward

By Norman Fox

Two British women, Gillian Gilks and Margaret Lockwood, reached the semi-final round of the All-England badminton championships at the Empire Pool, Wembley, yesterday, bringing the prospect of a repeat of the 1973 final, when Mrs Gilks lost to Mrs Lockwood, then Miss Beck. The last surviving Briton in the men's singles, Paul Whetnall, lost to the impeccable Rudy Hartono, champion from 1968 to 1974.

So in today's women's semi-finals, Mrs Gilks must take to the court to meet the Swedish-born, Danish-born, who is quietly taking victims without drawing too much, early unwanted attention, Mrs Lockwood, who has been a four-time champion.

When the English No. 1, had the least favorable task in the fourth round, Mrs Gilks used her most powerful weapon, which has been eliminated. Hartono seems on a different level from the remaining semi-finalists. The Swedish-born, Danish-born, who is quietly taking victims without drawing too much, early unwanted attention, Mrs Lockwood, who has been a four-time champion.

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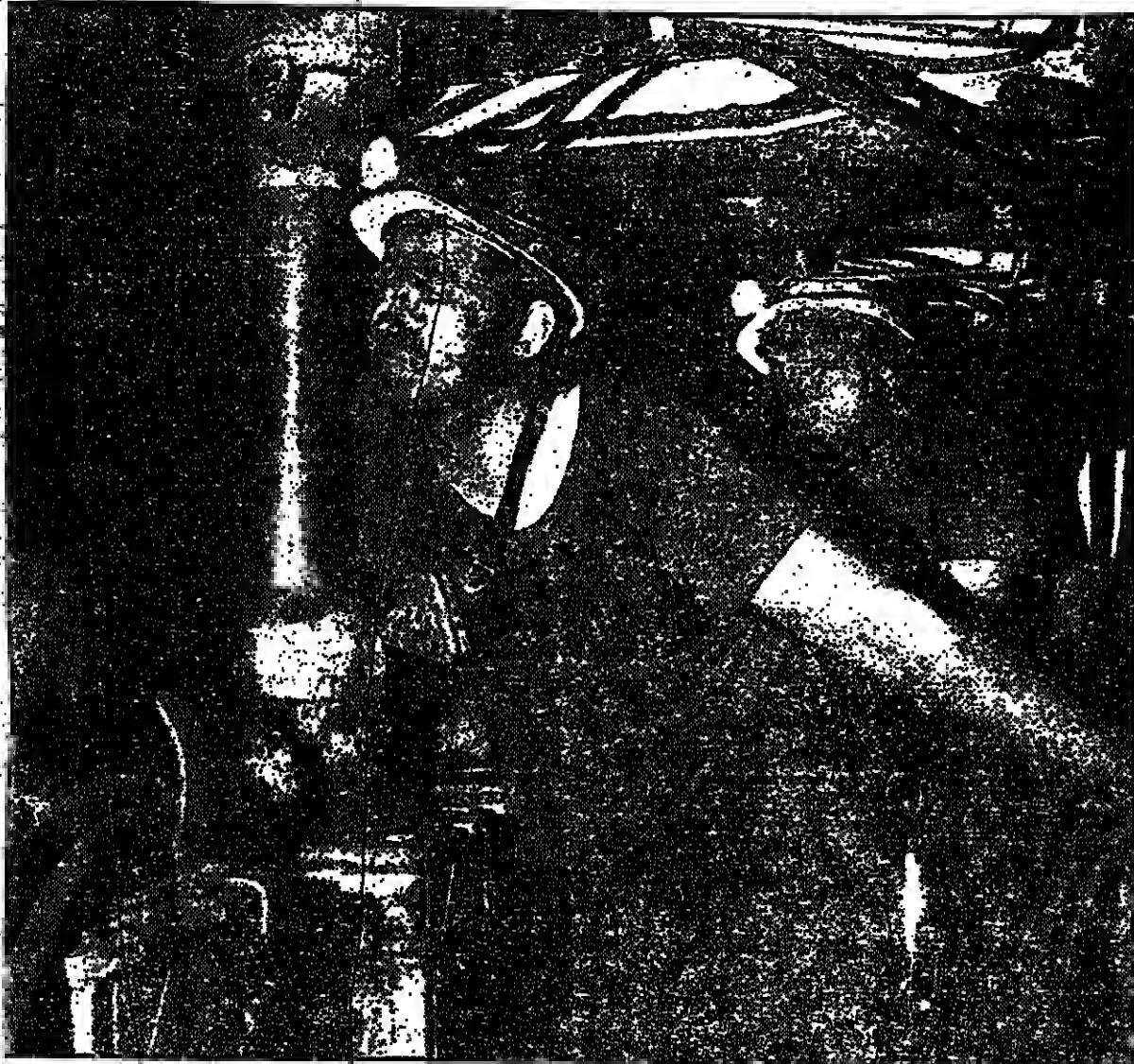
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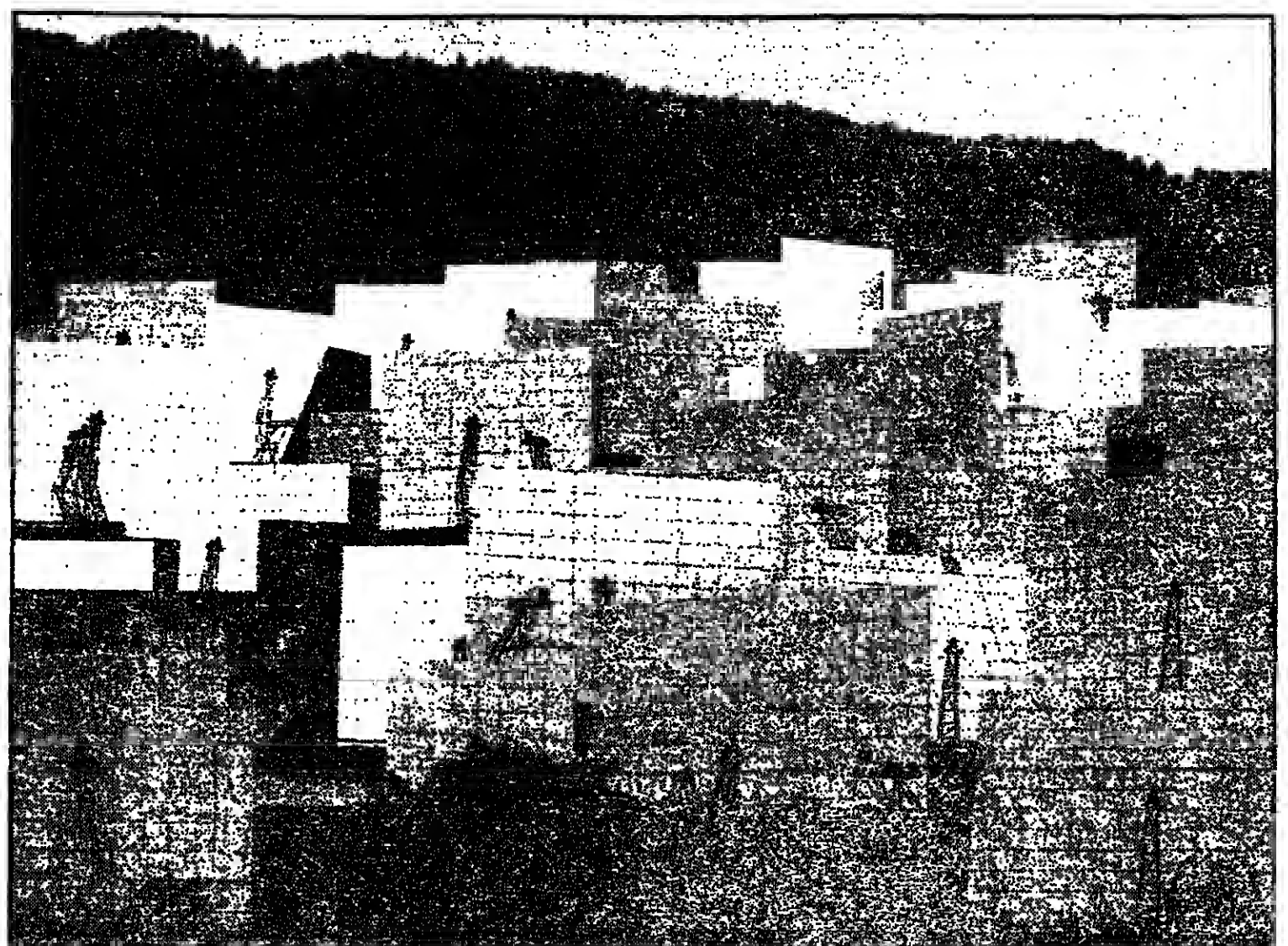
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Britain is at last facing up to the need for a comprehensive energy policy. This Special Report discusses the difficulties and opportunities that will be posed in the next 10 years for the resources of the nation and the rest of the world

Energy



Robert Golden



Georg Gurner

Energy from traditional and modern sources: coal mining in Britain and a solar furnace in the French Pyrenees.

Scribbles on Mr Benn's blackboard illustrate the complexities of finding an overall plan

by Roger Vielvoys

Senior executives in the energy-producing industries are renowned for their inability to agree with each other. However, there is one area where there is a good general agreement—the need for an energy policy which will lay down guidelines for developing their respective industries over the next 10 years.

Until now energy policy, such as it is, has been a series of decisions made by individual industries. It takes after extensive consultation with management and unions but rarely taking into consideration the views of competitors and certainly not involving consultation with the coming industries.

According to Mr. Anthony Wedgwood Benn, Secretary of State for Energy, both the nationalised fuel industries and private companies are about to undergo a fundamental change in the mechanism for producing policy guidelines. More than 100 executives and union leaders representing every facet of energy production and their industries will be invited to the first national energy conference tentatively scheduled for June or July.

Mr. Wedgwood Benn says it will give everyone involved in energy the opportunity to voice his opinion and, equally important, hear the views of both management and leaders from other areas.

The representatives will range from the obvious candidates—the nationalised electricity, coal and gas industries which have most frequently been in contact and conflict in the past. This time the state-owned nuclear reactor construction company and the fuel industry will sit alongside the newly-formed British National Oil Corporation (BNOC) and executives and union from private oil companies, both United Kingdom based and foreign.

Supporting industries, such as heavy electrical engineering, shipbuilding, oil platform construction and offshore suppliers, are on the list as well as experts from research development and conservation.

Mr. Wedgwood Benn, as the principal advocate of energy policy, has had the opening up of the policy-making machinery to the public gaze in view of the fact that the Department of Energy last summer. In his office over-

looking the Thames at Millbank he has constructed a blackboard chart showing the complex relationships that bind the various industries to each other and to many government departments, and in some cases their customers.

Further down the board are the various outside influences, such as the European Economic Community, the International Energy Agency and the Organisation of Petroleum Exporting Countries, which all have an effect on United Kingdom energy policy or are concerned at the decisions taken in Britain.

The blackboard plan for consultation has impressed many visitors, and anyone with ideas is free to make suggestions for alterations or additions. There are outline plans for a world conference of state oil companies with BNOC playing a leading part. During one visit Shaikh Yamani, the Saudi Arabian Oil Minister, produced a convincing case against a world conference of this sort and suggested that state oil company contacts should remain on a bilateral basis. His opinion was duly recorded and the idea of the world conference has slipped back.

Visitors, too, from the oil companies have been intrigued by the blackboard approach. But for them it is what follows the blackboard scribbling that is of interest. Even companies which are not over-enthusiastic about Britain's offshore participation policy have shown interest in taking part in any debate which will help them to take an active role in formulating energy policy. It is an opportunity that rarely comes along, even for the multinational companies.

The real success of last month's meeting of management and unions from the electricity and coal industries was the establishment of a number of joint working parties which are exploring various areas of common interest. When they discussed among other things a gas tax the British Gas Corporation wanted to join. Nobody will want to be left out of such a potentially important forum.

Bringing the leading voices in the energy business under a single roof is not the whole answer to energy policymaking. The minister and his department will still need to make decisions and Mr. Wedgwood Benn is considering giving the Government greater powers to issue directives to

the heads of nationalised industries. He already has this power with the BNOC and will probably include similar provisions in legislation to reorganize the electricity supply industry in England and Wales in the light of the Plowden report.

Community involvement in energy policymaking is likely to go much further than just a national conference. An unofficial discussion paper compiled by Mrs. Frances Morrell and Mr. Francis Cripps, who act as advisers to Mr. Wedgwood Benn, suggests that the Secretary of State for Energy should publish an annual energy policy statement in the form of a White Paper. But as there has been no such publication since the White Paper of 1967, they point out the need for a comprehensive review of energy prospects with all the alternative options for supply and conservation fully set out and costed.

They also wanted controls on competitive advertising by the nationalised industries and more information provided by the Government about the costs of alternative fuels and heating systems. They say that far too few consumers are aware that to provide a given

quantity of heat with an electric fire costs three times as much as with a gas fire.

Mrs. Morrell and Mr. Cripps set out four controlling assumptions for energy policy. They say the Government has a duty to ensure that everyone can afford adequate heat and light at home and that industry's energy needs are fulfilled at reasonable cost.

The Government also has a duty to plan for meeting these objectives on a long-term basis, including the regulation of the depletion of offshore oil and gas reserves. Within this framework consumers should continue to have the freedom to choose between fuels provided at a minimum price which reflects economic cost.

Their definitions may be generally accepted, although their detailed solutions are more controversial. Another of their assumptions is also generally accepted. Despite the advent of North Sea oil, Britain could face another energy gap in the 1990s, once the oilfields are past their peak.

If oil does begin to decline sharply in 15 to 20 years' time, Britain could be facing renewed energy difficulties at the same time as

other world consumers who will be suffering from the depletion of oil reserves in the main Opec countries.

Against this background there seems to be merit in the suggestion that the nationalised fuel industries should and their traditional formulation of long-term corporate planning based on independent assumptions and geared to their own objectives rather than long-term planning goals. This carries a built-in bias against joint schemes and does not ensure that all the alternative options for energy supply are fully investigated.

Mrs. Morrell and Mr. Cripps claim the basis of developing a decentralized system of small, self-contained power stations with district heating provisions has not been placed before the public. Equally, they say, there has been little official information on the possibilities of wind, wave, tidal and solar power.

The nationalised industries at present provide a prime example of the need for coordinating planning. The coal industry faces the real possibility that there could be a shortage of coal to burn power stations in the late 1980s. At present the Central Electricity Gen-

erating Board has plans for only one new power station in the foreseeable future and that is nuclear.

Its outline proposals for new capacity include new oil-fired stations but the coal industry wants the go-ahead for the second stage of the Drax station in Yorkshire. At the same time, the revamped nuclear construction industry wants continuity of ordering when the first 4,000 megawatts of new steam generating heavy water reactor stations have been contracted.

Both coal and nuclear are vital in meeting long-term energy requirements into the next century but on present electricity demand figures there is no economic justification for giving either of these important industries the short-term incentives they need. Put a premium on high industries' wilder ambitions might enable them to remain healthy and able to meet the demands placed on them in the next 10 years.

Attention must be paid as well to the rate at which oil and gas reserves in the North Sea are depleted. Machinery already exists for controlling the rate of depletion and the entry of the BNOC should make this policy easier to carry out.

But the Government still needs sound advice on the likely longer-term prospects for finding new reserves in the North Sea and when, in the light of this advice, to activate the control of oil and gas output.

Energy policy can no longer be considered in isolation. EEC energy policy is still in its early stages. The commission seems at last to have thrown off desire for a common energy policy and is moving towards coordination of various national efforts rather than direction.

However, the EEC does present the ideal opportunity for sponsoring joint research and development into the more efficient use of conventional energy sources and the development of alternatives.

Planning and public consultation in the form Mr. Wedgwood Benn envisages has been given a fillip by the slump in demand for energy which has produced over-capacity in almost all the industries. Outside the North Sea, investment decisions can be taken at a more leisurely pace and can afford to see the results of the conference before taking any new action.

The author is Energy Correspondent, The Times.

Other fuel industries cut but big spending shows Whitehall willingness to back coal

The White Paper on public energy published last month gave a clear indication that short-term difficulties facing the coal industry will not be allowed to deflect the National Coal Board from its target of 150 million tonnes of coal in the mid-1980s.

The detailed examination of the coal industry and its future prospects by the Board, the unions and the Government in 1974, showed a plan for providing 42 million tons of new open-cast capacity and a further five million tons a year of open-cast coal. New capacity at this level would allow for natural exhaustion of some reserves not being worked and keep the overall

production target in sight. While a number of public sector industries saw their long-term plans pruned, the coal board was given permission to increase spending up to 1979-80. The figures show just how far the Government is prepared to back the coal industry's long-term future.

In 1973-74 the board was spending £99.3m a year, which included substantial investments in North Sea oil projects. Its offshore investments have since been transferred to the British National Oil Corporation and with them the requirement for future investment. At capital spending will go up to £219m this year and fall off at an annual figure of £242m between 1977-78 and 1979-80.

There was little surprise among the other nationalised fuel industries that coal had managed to keep its long-term plans intact. Judged on the conditions in the market place for coal a case could be made for down-grading some of the board's immediate expansion plans while keeping the long-term goal of a healthy and thriving industry in being. But the board has influential friends in high places.

The market for coal has slumped mainly because its biggest customer, the electricity industry, is in the depths of a recession. Electricity chiefs say the coal industry has caused the slump by increasing power station coal prices two and a half times in two years.

But the board and the unions have argued successfully that the lack of demand was foreseen during the examination of the industry and was one of the reasons why the report contained the long-term strategy for the industry should not be deflected by short-term fluctuations in the prices and availability of other fuels.

Since the 1973-74 energy crisis coal has been assisted by a string of massive crude oil price rises that have increased the imported price sixfold. No matter how large coal price rises have been it has been able to remain competitive with oil in the power station market.

While in the short term the NCB may be able to overcome the surplus of

coal that has developed, ensuring that the fuel remains competitive may be made more difficult.

The Organization of Petroleum Exporting Countries will by the end of June have had a single 10 per cent price rise over the previous 18 months. Two price freezes have stabilized the crude oil price at between \$10.20 and \$10.50 a barrel and when the organization meets in May the indications are that the freeze could continue.

At worst, from the consumer's point of view, there could be a small increase, but nothing like the huge rises that have taken place in the past. For coal this presents a fundamental problem. The investment programme on which it is

embarking is expensive and will certainly need higher prices in the market place once that additional spending gathers momentum and the board is faced with higher interest charges.

The 13 per cent increase from March 1 was calculated with the benefit of the 26 wage limit. Meeting the inflation target in 1976 will be a true test of the fact only one of a number of reasons for the increase. Without wage restraint it is doubtful whether coal could have remained competitive.

Morale in the industry has been damaged by the ever-increasing stocks of coal and productivity has declined. But the fact that rising stocks have not led to firm closures or other short-term economies has pro-

duced a measure of confidence for the longer-term future.

Stocks are a major problem for the industry. The NCB has about seven million tonnes of power station coal in its yards and the CEGB had, at the beginning of this month, about 14 million tonnes—about four million tonnes more than it would reckon to have at the end of the winter.

Sir Derek Ezra, chairman of the NCB, told last month's meeting between the coal and electricity industries that unless preventive steps were taken, a capacity will have fallen significantly.

The NCB has been adding to coal reserves at four times the rate of annual consumption. North Sea oil has a limited lifetime: the

He put forward a package of ideas aimed at increasing the amount of coal burned in the power stations: reduction of imports; a smaller power station consumption of natural gas; and the construction of more oil-fired power stations to displace coal, so that they could also burn coal.

But in the longer term the real problem is the lack of any prospect for the early construction of another coal-burning power station. The NCB claims that by 1985 the coal-fired portion of the CEGB's capacity will have fallen significantly.

It has realized there is a danger that non-members of the club will be tempted to undercut their prices.

coal board says, and on this basis all large conventional power stations should be capable of burning oil in the 1990s and there did not appear to be a case for new oil-fired capacity.

A fall in the amount of coal being used in power stations in the 1980s would have a disastrous effect on the NCB's long-term development plans. A decision is expected shortly on public inquiry into the NCB's proposals for a £13 million ton a year investment complex at Selly, Yorkshire. NCB approval of investment on colliery projects costing more than £1.5m has also increased from £15m in 1973 to £24m in 1975.

R.V.

Sitting on the sidelines and profiting from Opec decisions on oil

was Mr. Wilson who first gave a touch of respectability to the suggestion that rich, with its new-found riches, should apply for membership of the Organisation of Petroleum Exporting Countries (Opec).

The thought of Mr. Benn along up with the oil talks to fix oil prices or Mr. Wilson attending summit of Opec leaders provided some amusement in the oil industry but it is an idea that should not be dismissed too lightly.

When output from the

British sector of the North Sea reaches two million barrels a day, probably in the early 1980s, Britain's position as one of the major oil producers in the world oil business will be assured.

Already the output from BP Forties field, Shell's Auk field and the Hilton Brothers' ARYL oilfield give Britain a daily output that is only slightly less than the smaller producers of Opec, like Gabon and Ecuador.

Originally, Opec took the production increases

over the next four years. Britain's output could overtake that of Algeria, Qatar, Abu Dhabi, Nigeria, Indonesia and Libya, if that country continues its present conservation policies.

If Kuwait also holds its oil output to about two million barrels a day in an effort to spin out the life of its oilfields, Britain could lie fourth among the Opec producers, behind Saudi Arabia, Iran and Iraq.

Originally, Opec took the production increases

receive membership applications from Britain and Norway to good humour. It is thought that the Vienna-based secretariat of Opec has received a tentative inquiry from the Norwegians about the conditions of membership.

The thought of Britain and Norway actually joining has produced a flurry of activity in Vienna. The rules governing membership are being tightened and the next full ministerial meeting in May will be asked to approve a new code.

But it is Norway and not Britain that has the best credentials to gain entry into the exclusive exporters club. Two million barrels a day of production will make Britain self-sufficient in oil but in order to ensure that refineries get the right mix of crudes to manufacture products for the British market most economically, heavier types of oil will be imported from the Middle East.

Perhaps as much as 40 per cent of refinery requirements will be met through imports, leaving the balance

of Britain's own North Sea major producers and exporters, and they will have to prove that oil is their main source of wealth. These tougher rules are not only aimed at potential European members; a number of small producers in the developing countries have been sounding out the possibility of joining.

Opec acknowledges that it has enough difficulty in carrying out its decisions with 13 members and has no wish to make this process any more difficult by introducing more voices into the debate. So it seems that Britain

and Norway will have to sit on the sidelines like other high producers and reap the benefit of higher prices for oil without actually taking part in the decision-making process.

Once the oil begins to flow in large volumes next year Britain's interests will be similar to those of the price "hawks" in Opec, like Iran, which want every penny they can get out of oil.

Opec has realized there is a danger that non-members of the club will be tempted to undercut their prices.

The cost of production for all new sources of oil is high and the protection of high Opec prices is needed. This is demonstrated by the International Energy Agency's need to impose a minimum safeguard price of \$7 a barrel to provide some insurance for the vast sums of money that are being spent on the development of other forms of energy.

Price competition from these new sources is something Opec is not desperately worried about.

R.V.

Lengthy talks bring success

by Roger Vielvoye

The establishment of the British National Oil Corporation under the former Conservative government, Lord Kearton, has set the scene for direct involvement in the oil industry for the first time.

After a long period of uncertainty, the new nationalized corporation came into being on January 1. The Petroleum and Submarine Pipelines Act arms the new state body with extensive powers to enter every sector of the oil industry and eventually become a fully integrated oil company in the mould of the inter-national giants that January 1. The NCB's assets dominate world markets.

But the plan for its most important task in its first year is not contained in BNOC with 33 per cent of any legislation. BNOC is the majority state participation, per cent majority state participation that the Government wants "voluntarily" fairly small share of their to negotiate in the commercial oil discoveries that have been made.

These are the oilfields that have been found on licences that legally do not give the state the right to any form of participation. The Government has been trying to persuade the oil companies to let them participate voluntarily and pay royalties obligations has devised a policy for oil rather than state involvement that will ensure that the companies do not suffer any financial loss if they allow BNOC a majority, but not necessarily a controlling interest.

No loss, no gain represents a softening of previous government objectives of winning for BNOC a straight equity holding in the various successful oil consortia. It does away with the case of any company fears that BNOC already had a seat on the board of the former oil companies. The dominant position in the group since the participation agreement will not give it complete control and, as in the past, all major decisions will have to be unanimous. The Conoco/Gulf deal was followed by the outright purchase for \$85m of Burmah Oil's holding in the large Ninian field development. Burmah's financial troubles made it difficult to meet its share of

the field's development costs. Just before Christmas, the Government stepped in and offered to buy Burmah's Ninian stake and gave the company \$40m on account.

Burmah had still hoped to negotiate more than \$100m from the Ninian sale and use this to finance its commitments to the Thistle field development where the company was responsible for the design, construction and installation of production facilities.

But agreement in principle has been reached for BNOC to acquire a 51 per cent in all Burmah's remaining offshore interests including Thistle. This will give BNOC access to the team of about 250 experts that are working on the Thistle development.

From BNOC's viewpoint this is a big step forward. Lord Kearton sees the next few years as a time of learning for the state company. The representatives it puts on the various operating committees will feed back information that will gradually enable BNOC to build up its own group of experienced oilmen.

Burmah's offshore team will provide even more valuable information and experience for the company. Lord Kearton's policy is to build up the knowledge but not rush headlong into exploration and production on his own account.

Although Tricentral, one of the members of the group developing Thistle, also signed a participation agreement and a number of other small companies are in advanced stages of negotiation, it may be some time before other large-scale agreements are signed.

Two of the biggest companies in the North Sea, Shell and Exxon's British subsidiary Esso are opposed to the idea of participation and apart from preliminary routine discussions on the subject have made no attempt to negotiate with the Government. Mr. Clifton Garvin, Esso's chairman, said on a recent visit to Britain that as participation was voluntary, his company was not volunteering.

His views are shared by a number of other large American-based operators, and although British Petroleum has conceded the principle of BNOC taking 51 per cent in the Forties field, there has been a remarkable lack of progress towards a final agreement since most of BP's directors share the Americans' suspicion of participation.

In part this attitude stems from the rough treatment that many of the international oil groups have received at the hands of members of the Organisation of Petroleum Exporting Countries (Opec) over the past two years in a different sort of participation negotiations. Some of the Gulf producers negotiated a formula for giving the state eventual 51 per cent participation in the rich Middle Eastern concessions which involved a long transitional period.

No sooner was the agreement signed than the six producers decided to increase their stake in the concessions to 60 per cent and began talks about 100 per cent participation. In some company executives' minds participation is a euphemism for nationalization and once a country has a holding in concessions it is only a matter of time before the Government wants to expand its stake.

They will concede that Britain's participation ambitions may be satisfied by gaining 51 per cent rights to the oil but for companies that have huge marketing operations in Britain, loss of the right to the oil is a major concession and they will not readily surrender. Conoco and Gulf are not two of the largest marketers in Britain and it seems likely that when agreements are made with other major companies there will be a longer period before BNOC has the right to exercise its options.

Without signing another participation agreement BNOC could, if it exercised its option, be handling 10 million to 15 million tons of oil a year by the early 1980s. Inclusion of royalties in crude rather than cash could boost this figure to between 18 million and 25 million tons a year, but a quarter of national consumption.

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Investment safeguarded by minimum price

by Peter Kenyon

Fresh hopes for laying the foundations of an EEC energy policy were roused at the European Council of Government leaders in Rome last December. Energy ministers from the nine member countries have only recently demonstrated how justified these hopes were.

Two issues have bedevilled discussions over the past two years—the United Kingdom's determination to retain sovereign control over the exploitation of North Sea oil and gas and the insistence on remaining aloof from consumer initiatives that might offend producing countries. These matters crystallized when Mr. Callaghan, the British Foreign Secretary, demanded separate representation for Britain in the Conference on International Economic Co-operation (CIEC) which opened in Paris at the end of last year.

In return for Britain dropping that stance in Rome, M. Giscard d'Estaing, the French President, conceded the principle of measures to safeguard and protect investment in EEC energy resources and promised French participation in energy sharing should supplies be reduced or cut off again.

The basis of an EEC energy supply policy requires that investment guarantees. Without such assurances underpinning investment in the North Sea there are limited benefits, if any, for Britain. It is a Community-wide energy programme. By 1980, Britain should be producing 100 million to 130 million tons of oil, which with its vast reserves of coal and nuclear power plants would make it the only energy self-sufficient country in the EEC. Within 10 years, if production targets are met, British oil could enable the EEC to reduce significantly its imports of Opec supplies.

The key to this potential achievement is a safeguard mechanism for investment. The cost-free means of providing this guarantee is a minimum safeguard price below which prices would not be allowed to fall. This is the technique favoured by all oil-consuming countries represented in the levels of oil stocks agreed the previous year.

In addition all nine are committed to conservation policies—varying mixes of rationing and price policy. The success of steps to reduce consumption is veiled by the impact of the recession, which inevitably hit demand. Part of the reduction in energy consumption is also attributed to the weather—two mild winters in succession. The latest consumption figures, compiled by the EEC Commission, from national statistics, highlight grounds for concern spent out at the beginning of the year in an EEC report on the rational use of energy.

The 1976 forecast is that consumption will grow 3 per cent, compared with 1975. Last year consumption fell 4.7 per cent compared with the previous year and a 2.4 per cent fall was recorded in 1974 compared with the pre-crisis year of 1973. The Commission's target for energy saving agreed by ministers is 15 per cent less energy to be consumed in 1985 than was forecast before the 1973 oil crisis. That would result in a net saving of 250 million tons of oil equivalent.

The Commission is worried that measures taken so far by member states are not hard-hitting enough to force down consumption. The only countries in which energy prices have increased at a faster rate than the retail price index are Denmark, France and West Germany. Few of the measures proposed or carried out are likely to be sufficient to ensure that consumption patterns, petrol consumption is proving particularly unresponsive to price increases.

When it coined the advertising slogan "high speed gas" the British Gas Corporation was describing not only its product but also the industry's progress over the past decade. The advent of natural gas supply from the North Sea and the relative cheapness of the fuel has enabled gas to make inroads into all the domestic and premium industrial markets, and such has been the demand for gas that the Government has had to relieve the corporation of its statutory duty to supply all potential industrial customers because of inadequate supply.

The growth of gas in the domestic market over the past 10 years has been phenomenal but it is not wholly attributable to North Sea supplies. There was a trend toward increasing domestic use before the first natural gas came ashore in 1967. Its main success has been at the expense of electricity, especially in the central heating market. Calculated on a "useful energy" basis gas has increased its share of the domestic fuel market by more than 100 per cent in the past decade.

Sir Arthur Hetherington, the corporation's chairman, has estimated that the theoretical limit of the domestic fuel market which gas can capture is about 75 per cent and by the late 1980s it could be supplying 60 per cent of the market.

Natural gas from the North Sea is saving Britain more than £1,000m a year on the balance of payments in the place of imported oil. The North Sea supplies almost 95 per cent of the gas in Britain and sales have more than quadrupled since the first field, West Sole, came on stream in 1967.

In 1975 natural gas provided Britain with energy equivalent to 54,500,000 tons of coal as opposed to 17,600,000 in 1970. Only 20,000 tons of coal were used in the place of gas in the industry almost wholly based on coal conversion. Carbonization of coal for the manufacture of town gas has almost ceased and last year gas made from oil was more than 50 per cent down, using less than half a million tons of crude.

The gas industry has met the targets set for it in the 1967 White Paper on energy supply, while it was envisaged that the North Sea would supply 2,000 million cu ft of gas a day in 1971 rising to 4,000 million in 1975. Both targets were met and the enormous logistical problems involved and there seems little doubt that in the early 1980s the figure will pass 6,000 million cu ft a day.

The dramatic rise in the use of gas over the past 10 years provokes the question: "where does it stop?" The reserves in the North Sea are finite and while we

steps have been taken accordingly. Because of their innovative nature, these developments have been followed with the closest attention by experts in Germany and abroad. Against this background it is planned to offer technically involved visitors the opportunity to see possible survey of the energy transmission scene.

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'High speed' in more ways than one

by Ronald Emler

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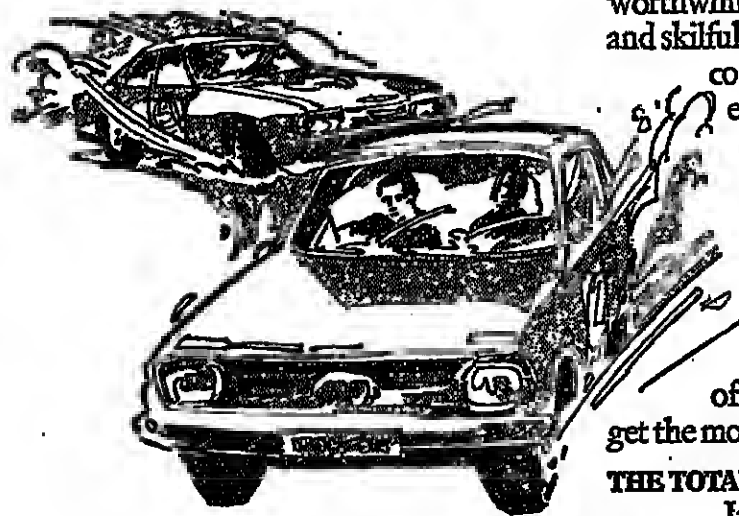
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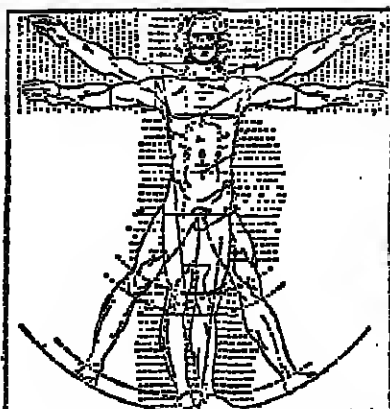
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Berlin, Sept. 20-23, 1976



The particular problem of rational utilisation of energy in conurbations is the highly topical theme of the 25th German Industries Exhibition to take place in Berlin. A congress plus a special exhibition will deal with connected themes and will include questions on environmental pollution. The events have the support and backing of renowned German and international institutions and associations of economic and techno-scientific consortiums. The lecturers and delegates will come from both Europe and overseas.

Congress topics to include:

- Coordinated utilisation of energy in conurbations.
- Transportation and distribution of energy in conurbations.

Congress "Rational Utilisation of Energy in Conurbations"

With Special Show as part of the German Industries Exhibition Berlin Sept. 13-26, 1976

Possibility of district heating supply from thermal power stations in West Germany, including West Berlin. The special show will devote space in particular to the questions of rational energy transmission in conurbations, solutions to these problems were sought at a very early stage in Berlin, and the first

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Countries living beyond their mineral means

by Pearce Wright

What happens when energy supplies run out? Since the fossil and mineral fuels—coal, gas, oil and uranium—have finite limits, their depletion in the near future is assured by the present rate of exploitation. One calculation of reserves puts coal at 6,641,200 million tonnes, oil at 76,200 million tonnes, natural gas at 49,900,000 million cubic metres and uranium at 761,400 tonnes. With no restriction on the way these resources are being used they would be worked out respectively by 2083, 1992, 1984 and 1995. Ways of extending the life of non-renewable deposits are discussed constantly. Conservation and more efficient processes by industry and in transport would extend the life of coal by 30 years, oil by 100 years. Uranium deposits would last longer by changing to a new generation of nuclear reactor, the fast breeder. However, these ideas for nuclear power development contain important questions for debate. They include environmental safety and the long-term hazard to the population from adding small amounts of radioactivity to the surroundings. Both are an inevitable by-product caused by the wastes of a nuclear power programme.

With world energy demand increasing by about 5 per cent a year a dilemma is looming for both the developed and developing nations. World population is expected almost to double by the year 2000, despite population control policies and new methods of contraception. Maintaining this number of people, without any question of raising standards of living, will require more than three times the present rate of energy production.

A rule of thumb in energy calculations, applicable to both industrial and underdeveloped countries, is that poor people need a sharp rise in the amount of energy they use if their living standards are to show any appreciable improvement above subsistence level. Studies by the Department of the Environment and the Department of Employment in Britain show that, therefore, in one sense, the world is progressing to less energy-intensive activities in the form of goods and services. Yet the question of what happens when supplies run out received scant attention on politicians, Whitehall mandarins or industrialists. All members of the Organisation of Petroleum Exporting Countries flexed their muscles.

There are still diehards who believe that an end to transgression of the oil will be restored to a level of prosperity to in-

At least 40 years for a new source

On available evidence the first proposition seems debatable and the second indisputable. It hinges on predictions for oil from the North Sea, neglecting rather conveniently that it is the most expensive oil man has taken from the earth. Plugging the gap that is seen widening in the 1990s depends on finding satisfactory alternative sources which could be developed only with some dramatic overhaul of existing industries.

All experience indicates that it takes at least 40 to 50 years to introduce a major new energy source into the economy. Oil took longer than that before challenging coal as the main source of fossil fuel. Nuclear energy has a long way to go to prove itself as the next serious rival to the hydrocarbon fuels.

Atomic energy rises serious matters concerning the risk of exceeding the capacity of the environment to absorb pollutants without causing irreversible damage to health. Thus there is a

twofold argument about developments affecting the future of energy supplies. Ideally, new sources must be renewable and universally applicable (hence the attraction of solar, wind, wave and water power, and of the use of photosynthesis and fermentation of plant products).

In practice these alternative sources of energy require a higher degree of technical skill to perfect than is normally conceded in discussions about their future role. The problem in many poor countries is that population growth has kept the amount of energy available per head of population static.

A guide to the way energy consumption changes with styles of living was given by Dr Malcolm Givens, of Strathclyde University, at a conference on understanding energy systems. He introduced an analysis of food production with a comparison of the Tsembaga tribe of New Guinea and the Americans. The Tsembaga produce about 160 times per head as much food as the Americans, even though the people of the United States, using advanced technology, occupy about the same area of agricultural land for the size of population.

With 6 per cent of the world population, the United States uses almost a third of the world energy supply. The yearly increase in America is about 1 per cent for each head of population compared with a world average of almost 1.3 per cent. World supplies will have to treble to keep up with the increase in population if this figure is to remain the same. Under these conditions the gap in energy usage between the United States and the Third World will have narrowed very little by the turn of the century. One calculation suggests it could take 300 years to close the gap.

The growth of the economies of the industrial countries has been associated with an exponential increase in the demand for energy. An identical trend must be expected in the poor nations if a life style approaching that of the West is to be achieved. Even the most optimistic analyses, there is no way in which uniform high standards of living can be achieved throughout the world on the existing known reserves of fossil and mineral energy deposits.

World resources, particularly the deposits of coal, New processes, such as fluidized bed combustion, will enable soft brown coal with high sulphur content to be burned in power stations without producing unacceptable levels of pollution.

Unfortunately, the development of low-grade materials costs more than for the more easily accessible and richer geological areas. Industrial societies are simply living beyond their means in the way they are spending capital by depleting non-renewable resources. Indeed, many scientists and engineers believe the situation is even more bizarre because the hydrocarbons are being used for the wrong purposes. Burning them as fuel in boilers is one of the least desirable methods of using large naturally occurring organic molecules which can be turned into commodities as diverse as pharmaceuticals and plastics, lubricants and fertilizers.

Most countries are banking on nuclear power for their long-term energy supply in spite of the fact that there is not enough uranium to support a world programme of any size for more than 25 to 30 years. Nuclear power is a capital-intensive technology which costs about twice as much as comparable size fossil fuel stations.

Contrary to some popular beliefs, nuclear power is not a potential source of cheap energy, under any circumstances. There are political and economic aspects of the technology which could follow the pattern of oil. In this case the limited resources in the earth will come under the domination of a cartel of uranium exporting countries.

Britain could exploit US research schemes

The energy crisis facing the world is a little like the traditional riddle about the farmer, a pond and a water lily. Each day the lily more regions suitable for solar energy schemes. By 20 days cover the pond, any criteria, the objectives set in the American plan are very ambitious, but they decide he can wait until the plant fills half the pond before cutting it back. But goals.

Resources must be available, first, to ensure the security and policy independence of the country. Sufficient energy must be available for industry to sustain a healthy economy and full employment. Life styles must remain a matter of choice and not be restricted by limited, or by the absence of, particular forms of energy. World ability in energy supplies must be maintained by a proper exchange of resources and knowledge. New forms of energy resource must be consistent with preservation of the quality of land, water, air and general public health.

Thus the challenge facing the industrial countries must be to create the widest possible range of choice for the future. The list of energy resources for this embraced by the Club of Rome, a set of eminent industrialists, economists and politicians who are searching for some better ways of running the world which will not end in environmental disaster.

The opposition from economic pundits in industry and government showed that the analysis had struck more things like converting solar energy into a usable

form by water photodissociation. Hence a complete inventory of possible new sources covers coal, crops, fissile and fertile nuclear materials, geothermal, hydroelectric, natural gas, ocean heat, tides, waves, sands, sunlight, and waste heat from power stations, conversion of waste materials including plastics into raw materials or fuels, fusion and windpower.

Unfortunately, history did was to pose some lily-pond questions, suggesting that exponential growth—particularly of energy—resources was not perhaps possible in a finite world.

It might be politically desirable to develop new sources of energy more quickly than ever before: however, experience suggests that this is not technically possible. An examination of the policies of research being prepared for European countries suggests that most emphasis is given to complicated technologies. Yet the more complex the technical idea, the longer it will take to evaluate and introduce as a major source of supply.

More priority should be given to energy conservation schemes and development of smaller scale alternative resources. The emphasis of most energy policies of the western countries is to increase the large electrical generating and distribution networks. To achieve this the fossil fuel and first generation nuclear plants will be superseded by fast breeder nuclear reactors.

The release of energy by nuclear fusion occurs when light elements combine to form heavier ones with an associated surplus of energy. The hydrogen bomb and violent events on the surface of the sun produce

P.W.

Gas

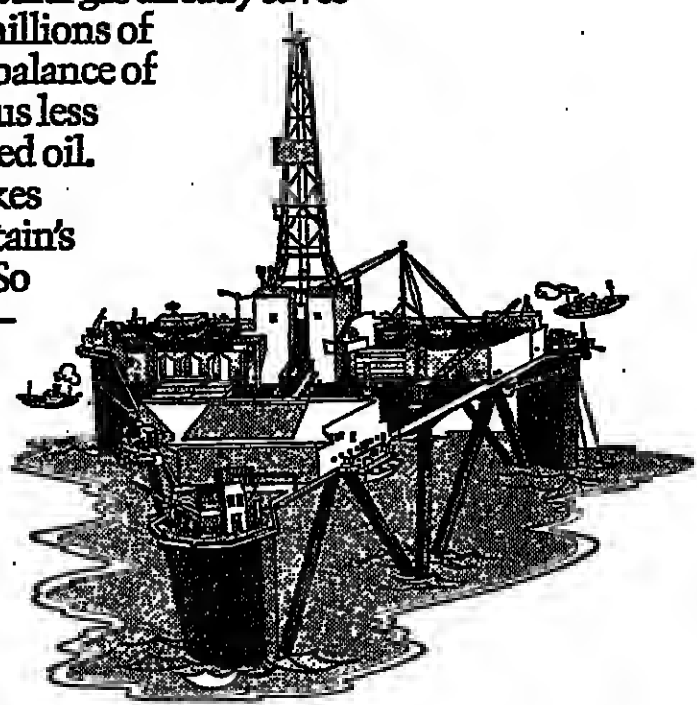
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Oil wealth fails to fill depressed pockets in east Scotland

by David Leigh

Before the oil came Scotland was a depressed part of the United Kingdom, despite some nationalist stirring. The beauty of the Western Highlands which masked the emptiness of a depopulated countryside where lack of opportunity and unemployment drove young people out.

In the central industrial belt the long decline of heavy industry (in much grimmer surroundings) posed one of Britain's most severe regional difficulties. Scottish politics meant the anxious monitoring of jobs. Despite inducements to industry, the average annual unemployment rate in Scotland was 3.54 per cent between 1960 and 1964, more than twice that of the United Kingdom as a whole. In the second half of the decade it was still nearly three-quarters as high again as that of the United Kingdom.

As recently as the 1970 general election there was no significant quantity of oil to figure as an issue in Scotland. The Nationalists, whose fortunes had been insignificant for a generation, argued defensively against the general view that a degraded Scotland, begging bowl in hand, simply could not survive unaided.

The first strikes in the Forth Field, in 400ft of turbulent North Sea water, 100 miles east of Aberdeen, came in November, 1970. It was a landmark: five years later the first oil from that field came out of a pipeline

at Cruden Bay on the north-east coast. By then there were 14 commercial oilfields off-shore from Scotland, two dozen exploration rigs still drilling and a lattice of completed and projected pipelines for both oil and gas on the seabed. The face of Scotland had been erratically and patchily transformed.

As the pace of oil discoveries quickened and the Middle East producers troubled the world price of oil, the United Kingdom Government was caught up in a race (as civil servants now ruefully concede) to help the companies get the oil out of the ground. If in 1970 it represented a windfall, it soon came to be seen as a huge mine of wealth and eventually as one of the most important means of economic salvation the whole country possessed.

Britain will become more than self-sufficient in oil by the end of the decade: on present estimates there will be £3,500m oil revenues in the Treasury by 1980 and up to £3,500m every year thereafter. The balance of payments deficit through oil imports was £3,100m last year. In four years' time the value of United Kingdom oil production will be some £5,000m and £2,500m of it will represent savings on the balance of payments.

The rapid depletion rates envisaged will mean that oil production from the North Sea passed its peak in about 20 years' time, although quantities should still be

coming out well into the next century.

From a Scottish perspective these huge and extraordinary statistics look rather different than they do from London. The actual impact of the oilmen, with their dollars, green field construction sites and spectacular plans, has been something of a mixed blessing.

At first geographical accident and the demands of technology set the pace entirely. Oil companies wanted harbours on the east coast to service their exploration rigs and pipeline landfalls. Aberdeen, Peterhead and Moolroose started to boom. The irony of this was that they were reasonably prosperous parts of Scotland already and are now even more prosperous.

The value of houses in Aberdeen trebled, homes were bulldozed for development and the city, which looks like remaining an administrative centre for oil activity for a fair time to come, now has one of the lowest unemployment rates in the United Kingdom.

The next phase was steel production platforms: Scotland got more jobs building them, in the Highlands at Ardersier and Nigg Bay and at Methil, farther down the east coast. Workers drifted east; but the jobs will not last more than about 10 years and already this year a serious gap in orders is developing, with the fear of sudden huge redundancies.

Another technical development now threw up an ominous portent. The oil companies wanted to build concrete platforms, needing a combination of deep water and flat land near by. The Western Highlands were ideal, and the confusion and acrimony that developed over applications to take over a Highland beauty spot at Drumhuie for platform building was followed eventually by Government efforts to take a grip on the oil situation. Another concrete platform site had already been authorized at Loch Kishorn near by, but some of the more vulnerable.

The Government has lists of preferred development sites, more powers over developers and reformed planning inquiry procedures; but there is no doubt that the fast pace of development took them by surprise at first.

In the Shetland and Orkney Islands a third phase of industrialization fell on remote areas. Shetland at least was already achieving a reasonably diversified economy as well as a distinctive way of life. A terminal for two far northern fields has been built at Flotta, Orkney, and the Shetland Islands Council, which took an exceptionally tough line on would-be developers, is now a partner in the £100m construction of Europe's largest oil terminal at Sullom Voe.

After having passed its own Act of Parliament, Shetland has great control over

developers, a rehabilitation fund for the day when the party turns out to be over, and a carefully constructed model village to house incoming site workers. The islanders are generally thought to have avoided the worst of pell-mell industrialization.

Now the oil rush is moving into another phase when some fairly permanent growth may emerge. This month's grant of planning consent for an American oil refinery at Nigg on the north-east coast, despite environmental objections, demonstrates the anxiety for work which is still the key to Scottish attitudes. It may make 450 permanent jobs.

There are hopes that some type of native petrochemical industry may grow up: what are called natural gas liquids—propane, butane, ethane—are also going to flow ashore and, while they may be exported to the United States, the ideal development from a Scottish point of view would be if they could be used as petrochemical feedstock, preferably in the depressed central belt.

For the biggest irony of the wealth of oil for Scotland has been that the industrial developments have gone to some of the wrong places. While some areas in the east have become overheated with extra grants having to be given to local authorities struggling to build sewers, water supplies, surgeries and

schools, Glasgow and the industrial west has the biggest social difficulties and fairly little oil work, apart from some heavy engineering spin-off. Platform construction sites on the Clyde await orders.

Oil has created 50,000 jobs in Scotland, some more desperately needed than others, but only a minority are in the Strathclyde region. Other depressed pockets in the east like Dundee and Cairness have tended to miss out for geographical reasons, although there is a Norwegian-linked oil service base now under construction in the Outer Hebrides.

While unemployment in the United Kingdom is going up, Scotland's unemployment gap is undoubtedly shrinking. In 1975 the Scottish rate was 4.69 per cent; the United Kingdom's was 3.63 per cent. Emigration has ceased: the gap in wage levels between Scotland and England has almost closed.

The remote north and east are getting investment in better communications: a new runway for Shetland, £2.7m to boost the capacity of the Highland rail line to Inverness, and the rebuilding of the trunk road to the north-east Highlands.

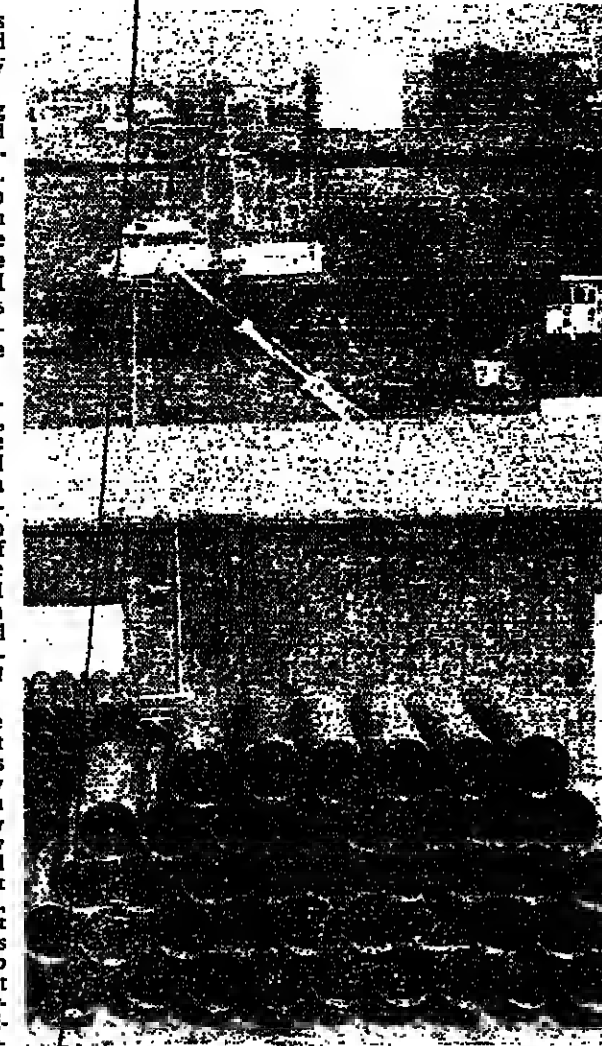
In Scotland the pattern of industrial development is still uncertain: how much more of the oil-related domestic market can Scottish companies move into? Will companies compete effectively in the expanding worldwide market for offshore equipment? But Scotland is

clearly a more prosperous place, however patchy and precarious the process may be.

The most far-reaching impact of the oil on Scotland lies perhaps beyond this pattern of industrial pickings. It has thrown Scotland into a political turmoil which may yet dissolve the balance of political forces in the United Kingdom. With oil the Scottish Nationalists rapidly saw that an independent Scotland would have access to wealth.

This changed everything. They campaigned vigorously, if crudely, on the theme "it's Scotland's oil" and have been doing so much electoral damage that Westminster has been forced into revolutionary schemes of semi-independence. At the same time the industrial development associated with the oil has led to more local self-confidence, rising expectations and an increased sense of national identity.

For once this century the Scots see that they have not only some jobs but closeness to a part of the economy which the United Kingdom as a whole desperately needs. Opinion polls show that the Scottish National Party has the highest support in Scotland—33 per cent, according to the latest sample. At least oil has already brought the Scots to devolution. At the most it might, in the view of a number of industrial politicians, bring about the subsequent break-up of the United Kingdom.



An oil company storage base at Peterhead.

Sun, wind and sea may be worth pursuing as an insurance

by Kenneth Owen

Last year the research department of the Central Electricity Generating Board published the results of an examination of the likely future importance of five main alternative sources of power—the sun, the wind, the waves, the tides and the heat inside the earth.

For generating electricity none of these emerged as directly competing with nuclear power. But some of the options might be worth pursuing as an insurance against delays in the nuclear programme, it was suggested.

According to the Electrical Research Association at Peterhead, Surrey, up to 10 per cent of Britain's annual electricity consumption could be provided by wind power. The CEB's estimate is not more than 1 per cent.

The bad news is that the ERA estimate is based on one or more standard 60-metre diameter wind turbines located at each of nearly 1,500 hill sites near the coast—with obvious environmental implications.

But the United Kingdom is one of the best placed countries in the world for exploiting wind power on a national scale, the association points out.

A commercial initiative, with partial support from the National Research Development Corporation, has been made by two companies which have combined to form the Wind Energy Supply Company (Wesco). Using helicopter technology, Wesco is offering several sizes of wind-driven plant.

According to the ERA, much larger units would be required for wind energy to make any significant contribution to meeting United Kingdom energy needs. Among present research projects a new type of vertical-axis wind turbine is being developed at Reading University, and wind power coupled to flywheel energy storage is being examined at Exeter University.

Design and development effort, but no new technology, would be needed to exploit wind power through large (one to two megawatts) units, the ERA suggests. Capital costs are estimated at between £150 and £200 a kilowatt.

Small machines would be fairly expensive and would be justified only in special situations such as remote, windy sites where alterna-

tive fuel costs are high. But, given the right conditions (and a high wind speed is important, since the power available is proportional to the cube of the wind speed), large units are potentially attractive for supplying electricity competitively to the grid.

Solar power, a diffuse source, can potentially be used either to produce electricity or to contribute heat directly in water or space heating systems.

Solar cells similar to those used on spacecraft, which convert solar radiation directly to electrical energy, are generally expensive and inefficient for use on earth. But they are used to a limited extent for charging batteries on boats, caravans and in other mobile or isolated situations.

Direct sunlight can also be focused by way of mirrors on to a boiler, and the steam used to generate electricity. But a sun-following mechanism is needed, the electricity generation part of the process is uneconomic at present, and the prospects for this concept in Britain would not be very bright.

An ambitious proposal for an orbiting satellite which would have huge solar-cell arrays and would beam the energy down to special receivers on earth has been put forward in the United States. This would be technically feasible but economically disastrous at present, although it might become more attractive in the longer term future (beyond the next 10 years).

Solar heating for domestic hot water systems is a different matter. Solar thermal panels are already in use in a number of conventional houses in Britain (and as part of special experimental energy saving houses in many countries).

Architects and builders are showing great interest in applying this source of energy to new buildings. According to the Building Research Establishment, a solar collector panel of four square metres on an average house could provide the equivalent of about 1,600 kilowatt-hours a year, a saving from about £17 (off-peak rate) to £32 (peak rate) a year on electricity costs.

The cost of installing the solar system on an existing house would be from £300 to £500. In these systems the solar panel (which typically would be mounted on

a south-facing roof) collects heat into a fluid (such as water, air, water/ethylene glycol mixture, or a special oil). The fluid is pumped through a heat-exchange coil in a special form of wind power) and the heat from the heated water feeds into the normal hot-water tank.

If all new houses built in the next 30 years could be fitted with solar-heating panels CEB scientists concluded, and if an equal number of existing houses were converted, domestic solar power could then substitute for about 4 per cent of Britain's energy needs. But the high capital cost efficiency in carefully controlled laboratory conditions.

Geothermal energy, obtained by drilling to tap the underground heat of the earth, is not regarded as a promising prospect for Britain. For economic exploitation high temperatures have to be obtained at fairly shallow depths—in other words the geothermal gradient must be fairly high.

"Normal" regions have gradients of about 40°C per km; "semi-thermal" regions show 40°C to 80°C per km; and "hyperthermal" regions 80°C per km. All the world's best known geothermal sites occur in hyperthermal regions where reservoirs of wet or dry steam are available at temperatures from 200°C to 350°C.

It is generally assumed that there is no possibility of locating a natural steam area within the United Kingdom, but semi-thermal areas can occur in any part of the world as a result of local anomalies.

The average geothermal gradient in Britain is only about 23°C per km, but in some areas the figures are much higher. Warm springs in the area of Bath and Bristol, for example, have been used since Roman times.

The "hot rock" type of dry geothermal source is also of potential interest for Britain. It appears from limited measurements that the large granite batholith which forms the spine of Cornwall could prove to be exploitable.

Another prospect for the longer-term future is the North Sea, where oil drilling has revealed some of the highest temperature gradients recorded in the United Kingdom. It has been suggested that after the oil

fields are exhausted this source of geothermal energy could be exploited.

Power from the sea can come in two forms—from the waves (essentially a exchange coil in a special form of wind power) and the tides. Both are being investigated in detail.

Many devices have been patented for extracting energy from the waves, but much interest in the United Kingdom is centred on the work of Mr S. N. Salter of the Mechanical Engineering Department at Edinburgh University. A turbine for a rocking float design by Mr Salter yielded efficiencies about 50 per cent under the controlled laboratory conditions.

Experiments by the British Hovercraft Corporation on a series of coupled floats have yielded efficiencies about 50 per cent under more practical conditions. The wave oscillations could be converted into usable power in various ways, including the possibility of self-contained floating factories for processes such as hydrogen production or uranium separation from sea water.

In tidal power the key area in Britain is the Severn Estuary, which has one of the highest tides in the world. In the simplest type of tidal scheme a dam is built across the estuary; the dam contains turbines which enable electricity to be generated as the tide comes in and again as it goes out.

Improved performance can be obtained from two-basin arrangements, which can give continuous power. Such schemes can be used for pumped storage of night power from the main nuclear stations.

On CEB's estimates a Severn Estuary scheme could yield up to 5,000 megawatts. Construction cost could be up to £2,500m, together with interest charges caused by the long construction period.

If an overall cost-benefit analysis proved positive, bearing in mind other factors such as the deep-harbour benefits to shipping and the transport benefits of a road across the estuary, the CEB's indications are that "such a scheme, by the time it is built, could provide something like 10 per cent of the country's electrical power needs from a source of energy which is wholly independent of inflation and political influence."

BRITISH COAL: WE'RE PUTTING MORE INTO IT AND GETTING MORE OUT OF IT

The NCB's coal exploration programme has so far proved reserves worth about £15,500m.

Other capital investment is helping to set up a new-style £10 million combustion plant in Britain to carry out research for the International Energy Agency into the more efficient use of coal.

60 new investment schemes
Under the 1974 Plan for Coal agreement, 60 major capital investment schemes for new and existing collieries have now been approved. Sixteen times as many boreholes are being put down as was averaged each year in the 1960s. Coal reserves worth about £15,500 million have been proved to exist. Currently we are proving reserves four times as fast as we are using them. The greatest find of all is at Selby in Yorkshire. It is intended that this new coalfield will produce 10m tons of coal a year.

New drilling techniques
The size of the Board's exploration programme has led to a vast improvement in drilling techniques. At the turn of the century, various boreholes had been put down in the Selby area with disappointing results. Today's exciting possibilities at Selby come from 32 boreholes and 145 miles of seismic survey.

New ways of burning coal
As well as making technological advances in drilling and extraction, the

NCB are pioneering new ways of improving the utilisation of coal.

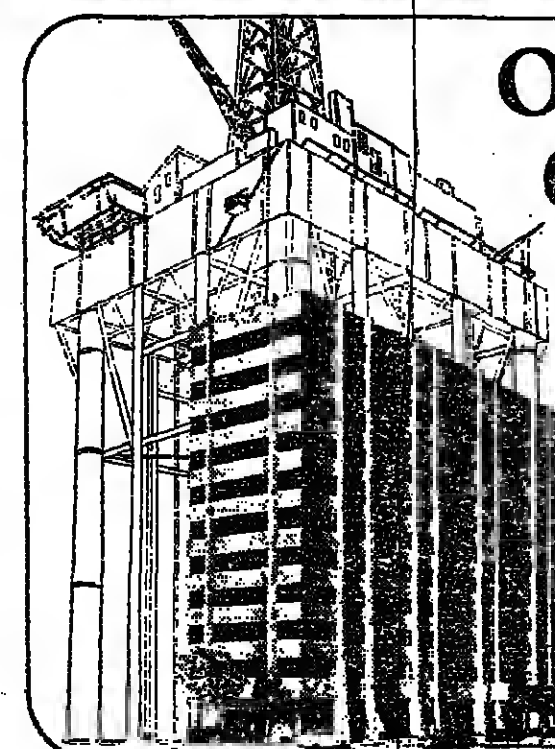
Recently, the NCB was given the go-ahead to carry out work on a project for the International Energy Agency. A £10 million plant is planned to be built near Barnsley to prove the benefits of fluidised combustion.

This new technique, inspired and developed by Britain, has three basic advantages in providing steam-raising plant for industry and for generating electricity. First, it needs a smaller, less costly boiler plant. Second, it has high thermal efficiency—even with low quality coal. And third, it prevents pollution by not sending sulphur into the atmosphere.

A big future for coal
The 1974 Plan for Coal is already starting to take shape. Output is going up. New reserves are being proved. New and existing collieries are being developed. And new techniques are making sure that we make the most efficient use of our coal.

The outlook for coal is looking good. Which is good news for the mining industry. And for Britain.

NCB
The National Coal Board



On site H.Q. for Offshore activities

Join the offshore oil concerns at St. Machar House in the heart of the city of Aberdeen. This superb office complex, which is nearing completion, offers a unique opportunity to any company directly concerned with North Sea Oil or the associated activities.

St. Machar House is situated close to the harbour, hotels, bus and railway station and the central shopping area. It has a total area of 78,000 sq. ft. and is available to be let in floors at one of the most competitive rents in the city. There is an impressive entrance hall and three lifts serving all floors. Car parking is adjacent.

For further details ring:

Wright & Partners,
20, St. James's Street, London,
SW1A 1HD. 01-493 4121

F. G. Burnett,
11 Rubislaw Terrace, Aberdeen,
AB1 6XJ. 0224 572641



The First Ballot for the

years without real power over central policy or events. No one who has dealt with him can doubt that he is a patriotic and responsible political leader. He is not lacking in the necessary resources of political cunning, but his tactics are not an end in themselves, but a means of getting things done. Obviously any Labour government has to include Mr Foot, and given that he has led the first ballot, he must have a senior position. A government led by Mr Callaghan with Mr Healey staying at the Exchequer and perhaps with Mr Jenkins going to the Foreign Office would be a strong government; it would enjoy confidence in the country at large and it would continue to have the confidence of the Trade Union movement. So long as Mr Healey remains at the Exchequer his economic policies will continue to be followed.

This is now the Government which seems to be emerging from the Labour leadership election, and it is surprising how often these elections are decided on the first ballot. It is a government that most people would want to support, least as a sound basis for dealing with the present economic situation. In our view it is desirable that this government should be reached as quickly as possible. The sooner we have a new Prime Minister the better, and Mr Callaghan could be a good one.

Angola has been the postponement of meetings of three Soviet-American groups.

But this minor interruption in the flow of bilateral contacts is also a signal with wider significance. It could lead to further sanctions. The Russians will also have seen the clouds building up over détente as a whole, and President Ford's abandonment of the word itself, so that even if they feel that there is an element of bluff behind Dr Kissinger's remarks, and that the support of Congress remains doubtful, they can hardly fail to see that the threshold of serious risk is getting closer.

It is still, however, too early to relax. The Cuban troops remain in Angola and the communiqué issued after Dr Castro's recent meeting in Conakry said that "the destiny of the people of Namibia, Zaire and South Africa" was involved in the Angolan struggle. Cuban military missions are active in many places, including Somalia, Malawi, Congo, Brazzaville, Cameroun and Gabon. Soviet military help is flowing into Uganda. The danger remains that Dr Kissinger will be forced to show how much he can really do to back up his threats.

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work on grounds of literary merit, but a doctor with experience in treating patients with sexual problems testified that the book, as well as many other obscene articles, could be helpful to some people because they created masturbatory situations beneficial to them.

The logical conclusion of that argument is that every obscene article is in fact for the public good because some people will be helped by its very obscenity. Clearly this is not what Parliament intended when it provided the defence. The Court of Appeal has now laid down that, whatever the words "other objects of general concern" mean, they do not allow evidence to be called under its umbrella the effect of which would be completely to negate the purpose of the legislation. Its judgment means that the Obscene Publications Act might now be made to work, as it was intended.

Mr. D. L. Rudz

Advantage of cycling in towns and cities is a little too pessimistic in stating that "this machine is still blatantly ignored by the authorities." This is definitely not the case in the London Council; we are aware of the needs of cyclists, especially their safety, and we are determined to do something about it.

To this end it is our policy to encourage and assist the London borough councils to produce cycle routes to provide cyclists in the main, with the best of the traffic-free streets. The Council, in turn, will ensure safe crossing points at main roads and giving cyclists exemption in many road closures. A number of committees are already working on this. The London Council is also working with the London Borough of Wandsworth, and in conjunction with them we intend to introduce a demonstration project of a seven-mile network in a year's time. If successful, this can be extended elsewhere.

As well as providing a safe alternative to cycle journeys now made on busy main roads, we hope that such a network will be able to provide mobility for people who do not have access to a car. With better facilities for cyclists, many people, who are not persuaded by the attractions of cycling but are dissuaded by today's traffic volumes, will be given the option of using this excellent but neglected form of

on the Chairman of the GLC

Yours faithfully,
LILIAS GILLIES,
Room 135,
The County Hall, SE1.
March 24.

16. 5. 2011 - 2. 1.

Maintaining university standards

ity standards

through the medium of the universities? The universities, rightly or wrongly, feel that recent governments have attached too little weight to this essential function of theirs and one certainly doubts whether extra money would be available to finance a fourth or fifth year course, even if it were deemed necessary (as Sir Frederick Dainton suggests it might) to maintain first-grade standards. But beyond that, the streak of egalitarianism which runs through today's society is throwing suspicion on the universities' view of traditional functions and we in education need to redouble our present efforts to validate our claims on resources for the benefit of future generations.

The third, and in some ways the most practically important, point relates to the very long time-scale which are inherent in the educational system—as is demonstrated by the fact that the first reaction to the 1951 report predicting the state of affairs in the late seventies. Even in the highly unlikely event of immediate agreement not merely on the diagnosis of any problems in our schools but also on remedial action we would have to wait for the 1990s before there was any noticeable effect within the professions. This is at once depressing and heartening. Depressing because it means that things are going to get much worse before they can get any better. Heartening because a year or two now will make little difference in the long run, and because a deliberate search for long-term solutions is evidently more profitable than instant short-term fixes.

Given, then, that there is a problem of quality in education, the practical attack on it is probably

From 1990 to 1992, the following 100 companies were ranked by sales volume:

Sir, Mr Geoffrey Grigson
From. By a peculiar chance, seeing
how near it is to London, the
Dareath valley through Eysford
Lullingstone, Shoreham and Orford
and the bordering chalk hills and
woods has remained much as it
was when Samuel Palmer and his
contemporaries painted the Hundred
and fifty years ago. M25, the
London Outer Orbital road, is now
promising to destroy that excep-
tional loveliness.

Its looking stretch, between
Swanley and Sevenoaks, three
routes are proposed. All three
come close to the old trees of
Lullingstone Park, cross still to
the Dareath and Shoreham villages.
All three would cut through woods
and fields, and be a part of the
Shoreham neighbourhood. The
eastern route—the shortest and
cheapest—and I suppose the likeliest
to be chosen—would bring the six
miles within a mile of the
Shoreham village.

Perhaps it would be sentimental
to cry Earth-shifters away! or
accuse of Samuel Palmer. But
then Palmer worked at Shoreham
and recognized there a part of
natural landscape of extraordinary
happiness. Shouldn't we preserve
that today much rarer and so even
more valuable excellence, honour-
ing as we do so the painter who
loved it? The three proposed routes
works of art which are now national
affly and interationally admired?

The Department of the Environ-
ment has issued a pamphlet asking
the public which of the three routes
it prefers. A good, clear pamphlet
except that it says nothing of
Shoreham and its peace and fine
painter. Is it impossible to find a
route which will interfere less with
Palmer's "valley of vision" which
is still better, clear pamphlet
who live in it and come to see
it? The valley in which Palmer
"beheld, as in the spirit", glimpses
of "the perfumed and enchanted
twilight", and where he saw, in
his own poem, the golden day
behold the golden day ripen the sun
Up the side of some great hill
Ere the sickle has begun?

It would be ironic to collate the
night-and-day rumble of a com-
pleted M25 with the silence in
which Palmer's full moon is
behold the golden day ripen the sun
again—at this village where "All is
safe, and all is still".

Yours faithfully,
GEOFFREY GRIGSON.
Broad Tunn,
Wiltshire.

HOUSE SITS

economic calamity. But varying circumstances (little or no building in one area, a large programme in another, very much higher costs in some regions than others) are not sufficient to enter into the present subsidy structure, and they ought to be.

Mr Field is right in one thing—tenancy of a council house gives a tenant a right to buy at a discount, and good almost as effectively as service were tied to the land in earlier days; and so does tenancy of a rented controlled house. Nothing less than a complete re-approach to the problem of housing, with a radical modification will solve this problem of mobility, and make it possible for the family man to take his industrial skills to where the work is. There is no prospect of any such solution, and so the making good this deficit.

It is an illusion to imagine, as the Building Society Association appears to do in its evidence to the Cross Committee, that the building of council houses and diverting the resources of the building industry towards

From the Reverend Laurence F.

his reference to the temporal power of the Papacy and to limit comment to saying that it is kinder not to call him a *Dog* betray a lack of historical perspective most unusual in *The Times* of today. Cardinal Manning was prominent in many of the social and philanthropic movements of the time, sat on Royal Commissions, was awarded a special prize by the Prince of Wales and helped to settle the dock strike of 1889. His work in establishing schools for the poor was prolific, his influence with the labour leaders of his day was considerable. He played a part in inspiring the social encyclicals of Pope Leo XIII. His funeral, too, showed the great respect and affection which his fellow countrymen from all walks of life had for him. It is a pity that the appointment of Archbishop Hume—which we all share—should not lead Clifford Longley to denigrate his predecessors.

March 24.

From Mr John Raven

is the year in which British courtship of the European ideal can constitutionally expect the modest consumption of a customs union. There should then be an absolute end to the nonsense encountered by Signor Briotta.

Will there be? Or will the same old customs officials with the same old uniforms be holding up our supposed-to-be-enriched goods at the same old frontiers by demanding a mass of paper-embodied information which costs the poor trader at least as much to produce as the goods at a wretched old-fashioned 7 to 10 per cent tariff.

Anyone who would like to resolve this conundrum—and, incidentally, to enlarge his insight into the vanity of human wishes—is recommended to station himself at any convenient intra-company frontier at dawn on the first of next year.

Yours, etc.

JOHN RAVEN,
The Reform Club,
Falmouth, SW1.

March 18, 1901.

From the Editor of The Sun

Sir, In your recent evidence to the Royal Commission on the Press you were kind enough specifically to exclude *The Sun* from your general criticism of "scandal mongering" on the part of popular newspapers.

It is a pity, therefore, that the report of your evidence which appeared in your columns was less generous, and tarred us all, in effect, with the same brush.

I am sure your readers would like to know that this was not your intention.

Yours faithfully,
LARRY LAMB, Editor,
The Sun,
30 Boulevard Street,
Fleet Street, EC4.

From Miss Joyce Dahbs

Sir, Mr Widgery (March 16) and Mr Grant (March 24) both have it all wrong. The former apparently wants to rely only on consuming by public transport, the latter says nobody travels far to work, unless they choose". Each discounts the realities of counties like Cumbria, where the distances and high areas have no public transport, so that private transport is essential and for outlying non-agricultural workers whose only employment is in the towns. In the towns are not large enough to house everyone who needs (not "chooses") to work in them; and the minimum further curtailment of rural public transport throughout Britain, and it is obvious that Mr Widgery and Mr Grant lack objectivity in their argument.

Yours faithfully,
JOYCE DOBBS,
5 Eastgate,
Kendal,
Cumbria.

Sir, The illustration of the cartoon

Sir, the illustration in the tearing of the document in the current "Notice to Quit" advertisement appearing in the national press and paid for at our expense by the Department of the Environment is offensive in many ways—not least in its incitement to destroy.

What would the Checcaloro's reaction be to a similar illustration at the head of an advertisement by, say, a body of taxation dividers suggesting that our income tax demands were not worth the paper they were written on?

I cannot help but feel the ministers of the present Government have got their senses of proportion wrong. We are basically a law-abiding nation, and subject to fair and understandable legislation do not wish to be provoked by emotive publicity to actions we could well regret in retrospect.

Yours faithfully,
A. M. HAWKER
Ten Outlands Close,
Weybridge,
Surrey.
March 22.

From the Bishop of Repton

Sir, His Honour Judge Irvioe is not alone in having his sex changed by letter (March 25). The Gas Board has just stopped addressing me as Archbishop and simply begin "Dear Grace".

I have the honour to be, Sir, your obedient servant,

† WARREN REPTON,
Underwood, Baslow Road,
Bakewell,
Derbyshire.

THE TIMES

BUSINESS NEWS

More bank aid
urged for
small companies,
Page 18

IBM's thousand
million dollars
on R & D,
Page 19

Ryland opposition to government talks over PO worker directors

By Maurice Corina
Industrial Editor

Moves by the Government to set up a tripartite examination of the case for appointing worker directors in the Post Office are likely to be strongly resisted by the corporation's staff. It is understood that the Government has approached Sir William Ryland, chairman of the Post Office, and his colleagues to test reaction to such a scheme.

The Government appears to be all the time coming forward with new initiatives to involve employees in high level policy-making by the big state corporations to ensure future cooperation on manning, pay and investment strategy.

Examination of structural changes at the British Steel Corporation may also be influenced by the appointment of Sir Charles Villiers as chairman-elect. He has made no secret that he feels that some supervisory structure involving unions might create a new sense of partnership and help hold governments at bay, facing Whitehall interference.



Sir William Ryland: talks with the unions

Sir William, for the Post Office, has left the Government no doubt that, while he is prepared to undertake some participation in the nature of an experiment is best decided by his board in consultation with the unions.

Dutch raise stake in offshore search

The Hague, March 25.—Holland is to take a larger stake in operating companies seeking oil and gas in the North Sea and will increase its share of profits from future concessions, the economic ministry said today.

This will be effective from April 23 and apply to 9,000 sq kilometres of blocks not yet allocated, and 13,500 sq kilometres for which search permits have been granted but which will revert to the state.

According to a regulation sent to Parliament, the state will take 50 per cent in companies operating in the North Sea, compared with 40 per cent previously, and 70 per cent of the balance of profits, against 50 per cent.

Families giving up control of Lyons

By Our Financial Staff

Another major enfranchisement proposal was announced yesterday when the Salmon and Gluckstein families said they had agreed to relinquish control of Lyons, the international hotels and foods group which is famous for its Lyons Maid ice cream.

Lyons's decision to give votes to its non-voting shareholders follows a recent similar move by Rank Organisation. The controversy surrounding Rank's enfranchisement has undoubtedly been a factor in the Lyons decision, although the food company says it has had the matter under consideration for some time.

However, Lyons also announced a £10.5m rights issue yesterday in non-voting shares. Given the pressure both from Whitehall and the City for equal voting powers in companies, such a fund-raising exercise may not have been possible without enfranchisement.

The same families have had control of Lyons for over 50 years. During which time the company has grown to its present size where the stock market value is over £40m and sales £650m.

Through between 6 and 7 per cent of the total equity of Lyons, the family grouping now holds 61 per cent of the votes. Lyons has a complicated capital structure. Compensation terms under the enfranchisement will take the form of issuing one new ordinary share for every £10 ordinary stock or proportional profit stock or every 10 "B" proportional profit shares.

The directors say: "Against this background, the need for more permanent capital and the present trend of public opinion, your board believes that the time is appropriate for all holders of equity share capital to have a voice in their company's affairs proportionate to their holdings."

Whether the present controlling families maintain their stake in Lyons—and the controlling shareholders have said that they will vote in favour of the proposals—depends on how much of their rights, and the rights they take up. The rights are being offered on the basis of one share for every three held at a price of 105p and indications are that full subscription by the family holders would cover between £350,000 and £750,000.

Financial editor, page 19

Sir Jules to retire as chairman of Thorn

By Richard Allen

Sir Jules Thorn, 77-year-old chairman of Thorn Electrical Industries, yesterday announced he is to retire after the annual meeting on August 27.

Sir Jules has chosen Mr Richard G. Cave (56), chairman of Smiths Industries, as his successor. Mr Cave has already been appointed a director and will take up his duties on September 1.



Mr Richard Cave

The appointment of Mr Cave ends several years of speculation about the likely successor to the enigmatic figure behind one of Britain's greatest industrial success stories.

Sir Jules was openly talking of his imminent retirement some years ago and the problem of succession seemed to have been resolved when Mr Jack Strower took over the managing directorship in 1969.

Mr Cave, who came to England from Austria in 1928, built up his huge electrical conglomerate virtually from nothing. Beginning by challenging the 1930s international lamp cartel almost single-handed, he went on to dominate the country's lighting business.

BSC gets £150m Euroloan

By Our Industrial Correspondent

British Steel Corporation was yesterday granted a £150m loan by the European Coal and Steel Community—the largest ever made by the ECSC—to finance an important new investment on Teesside as part of its 10-year development programme.

This loan, together with a £15m loan from the National Coal Board, were approved by the European Commission in Brussels and have boosted the total loans advanced to the two industries by the ECSC since Britain joined the Community in 1973 to £550m.

The BSC will use the money to support new steelmaking facilities at Redcar and at Lakenby on south Teesside, while the loan will finance the construction of a new drift mine near Pontefract in Yorkshire, which, when completed, will be one of the most efficient mines in the Community.

Community financing of the BSC amounts to £390m, of which £140m so far has been advanced to the company at Redcar. It is one of the largest projects in the Community's steel industry.

Some of the funds will be used in the construction of a blast furnace producing 10,000 tonnes crude steel a day and new coking plant with big improvements in the steelmaking shop and rolling mill at Lakenby on south Teesside.

MFC confident banks will back Danish debt

By Peter Hill

Maritime Fruit Carriers, the troubled Israeli-American shipping company, is optimistic that its banks will agree to secure the release of one of its ships held in Hamburg at the request of the Danish shipyard which built the ship, and is owed money by MFC.

According to shipping sources in Copenhagen, the Danish committee of the Danish parliament rejected a request to provide an extraordinary credit guarantee to prevent the arrest of other ships built by the same Danish yard, Aalborg.

A spokesman for the shipping company said in London last night that he was "reasonably confident" the banks involved would agree to act as guarantors, and he expected that this would be sanctioned in the next 48 hours.

Trading in the company's shares and debentures in the American over-the-counter market has been suspended at the Danish government to protect what he termed "our mutual interests—and that means avoiding loss of money."

Italy ban on BP protein is contested

By Roger Vielvoys

British Petroleum has taken the unprecedented step of publicly contesting the suspension of its authority to produce Toprina protein at a new £30m plant in Sardinia.

Toprina, the commercial brand name of the BP product, is produced from crude oil. Italian government tests produced 71 parts per million in the fat of pigs fed on a diet of 30 per cent Toprina—more than four times higher than envisaged in the authorizations for the process issued in 1972 and 1974.

BP has a 50/50 partnership with ANIC, part of ENI, the Italian state energy company. They have just completed a 100,000-ton-a-year plant at Sarcò, in Sardinia.

It is thought the opposition that led up to the suspension is the result of a series of pressures from Italy's Higher Health Council and the inability of a number of ministries to agree on standards for the product.

Resignations reported after Australian group losses

By Our Financial Staff

Speculation about management changes at Associated Securities, the Royal Bank of Scotland's 30 per cent owned Australian associate, was fuelled yesterday by reports that three of Associated's senior managers had left the company.

Royal Bank's deputy managing director, was unable to confirm the reports and also estimated that the Scottish Bank's overall commitments to Associated now top £25m.

Associated, a leading Australian hire-purchase, mortgage and finance house, has been heavily involved in commercial and residential property development along the Australian eastern seaboard and in the Pacific area.

AS2m pre-tax last year after taking in a near AS2m credit for foreign exchange dealings. In the six months to December, 1975, Associated slipped AS3.9m into deficit, and made provisions of AS8.2m against its property assets and loan book.

Royal Bank, subsidiary of the National & Commercial Bank Group, noted last year that "although effective steps" had been taken to streamline the Australian operation, it was unlikely that "there will be a return to previous levels of profitability until after the economy recovers."

Mr Home, for the bank, believes that adequate provisions have been made to cover the company's losses, and that yesterday's reports of management resignations in Australia mark no significant change in the situation.

Prince Bernhard's business links with London-based financier

Continued from page 1

a family, mostly nephews, in various holdings. He describes the world as a "big game of chance" to FI, that of a "sponsor".

Invited yesterday to discuss a business and the relationship with Prince Bernhard, Mr Ahmed said: "I know Prince Bernhard because I am a member of the World Wildlife Fund, which is one of the members, but my connection doesn't stand beyond that."

This statement contradicts the experience of a number of businessmen, who have seen evidence of a long standing relationship between Mr Ahmed and Prince Bernhard, on a occasion this has included arm personal recommendations.

There is evidence that the prince has attended meetings in London to promote Mr Ahmed's business interests, and his former associate in his business ventures stated that the mysterious financier had visited the Dutch Royal Palace.

One businessman who met the prince in Mr Ahmed's company was left with the clear impression that Prince Bernhard "held heavily on his business advice." He said, "Is the dog?"

There is no doubt that various people interviewed were greatly impressed at the outset of their dealings with Mr Ahmed by his obvious royal connection, whatever its nature.

Mr Varley signals closure of ship repair yard

By Our Financial Staff

Mr Varley, Secretary of State for Industry, yesterday gave government approval for the closure of the Greenwell ship repair yard at Sunderland, which will result in the loss of 400 jobs.

Mr Varley said a consultants' report showed that there was no hope of making the yard profitable, but that he would be happy to meet all parties concerned.

US budget deficit revised to peak \$76,900m

From Frank Vogt

Washington, March 25.—America's Administration has modestly revised its estimates of public expenditure to show an increase in outlays for the current year of \$900m (about \$450m) to \$374,400m and a \$1,600m rise in estimated outlays for fiscal year 1977—which starts on October 1—to \$395,800m.

With the Office of Management and Budget making no changes in its recent estimates the budget deficit for the current year is now forecast at a record \$76,900m, with next year's deficit also increased by the estimated rise in outlays to total \$44,600m.

Inflation enters Price Code debate

Short-term methods for building into the Price Code, a measure of inflation accounting which otherwise would be possible only next year at the earliest were suggested yesterday by a chartered accountants working party.

Chairman of the working party is Mr Geoffrey Wilson, finance director of Delta Metal and a member of the Government Inflation Accounting Steering Group, looking at implications of the Sandilands report.

Mr Wilson, disclosing the reasons for his views, was speaking not as a member of the steering group but only as one of the executives of the 100 Group of London and District Society of Chartered Accountants. The 100 Group's report will, however, be seen in Whitehall as an important contribution to the debate over the future of the Price Code.

In Glasgow, at the same time, Mr Joseph Godber, chairman-elect of the Retail Consortium, was giving his strongest warning so far that the code should be changed to allow prices to rise and retailers' profit margins to be restored.

Mr Godber, whose consortium has voluntarily supported the Government's price check scheme at present due to end in July, said: "Further voluntary cooperation by our industry will be dependent upon the Government's recognition that prices must be allowed to rise as the market permits and that the depressed level of profitability in retailing must be permitted to increase to provide for investment and jobs."

He called for a "positive decision" on the code before legislation can run out on July 31. He added that the price check scheme needed to be backed with more government publicity because otherwise it would "quickly fade away."

How the markets moved

The Times index: 166.11 + 0.03
The FT index: 406.3 + 0.2

Rises	
Asst & NZ	7p to 35p
Jardine 40	4p to 32p
Brit Leyland	21p to 30p
Corcoran	3p to 37p
Forester Wilby	10p to 31p
Gallenkamp	10p to 13p
Guthrie Corp	9p to 12p

Falls	
Barclays Bank	5p to 25p
Camellia	4p to 22p
Central Wagon	4p to 20p
Chalmers	2p to 28p
Edin Prov Post	4p to 10p
Lloyds, J. Ord	5p to 20p
Morson	5p to 20p

THE POUND	
Australia \$	1.60
Austria S	36.25
Belgium Fr	80.50
Canada \$	1.54
Denmark Kr	12.00
Finland Mk	7.60
France Fr	9.20
Germany DM	5.05
Greece Dr	69.00
Hongkong \$	9.95
Italy L	165.00
Japan Yn	605.00
Netherlands Gld	5.20
Norway Kr	10.50
Portugal Esc	58.00
S Africa Rd	2.60
Spain Pes	131.00
Sweden Kr	8.70
Switzerland Fr	5.02
US \$	1.92
Yugoslavia Dn	38.00

Equities made further gains with the emphasis on second-line stocks.

Gilt-edged securities were firmer. Sterling was 35 points lower at \$1.9235. The effective devaluation rate was 33.7 per cent.

Gold fell 75 cents on an ounce to \$113.

On other pages

Rises	
Asst & NZ	7p to 35p
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PRIDE & CLARKE LIMITED

The following are salient points from the Statement by the Chairman, Mr. A. D. Clarke, circulated with the Report and Accounts for the year to 30th September, 1975.

- Progress continued throughout the year giving rise to a record turnover of £33,121,176. The Group Trading Profit also reached a new peak, having increased from £554,787 to £1,312,812 and Earnings per Ordinary Share rose from 11.5p to 30.1p.
- The Motor Trading sections of the Group recorded a substantial increase in Turnover with the Importing Companies achieving a considerable improvement. The Hire Purchase Companies achieved a 23 per cent increase in Turnover and a satisfactory improvement in profits.
- The Directors recommend a Final Dividend on the Ordinary Shares of 7p per share making a total for the year of 10p per share (1974-8.225p) covered three times by net profits.
- During the current financial year turnover has been running at a marginally lower level than that achieved in the previous corresponding period. However, there are indications that sales are improving and I am hopeful that this trend will continue throughout the remainder of the current financial year.

Higher limits for bank loans urged to help small business sector

By Rodney Cowtuo

A warning that the small business sector was in a state of decline was given yesterday by Mr John Bolton, who was chairman of the committee of inquiry on small firms which published a major report in 1971.

He said that the vast majority of the recommendations of his committee had made to halt the decline in small businesses had been speedily acted upon, but because of the further taxation, by 1976 we are again back to square one. The patient's condition continues to decline: witness the record level of bankruptcies and receiverships. Not enough is being done and not quickly enough.

The availability of working capital was still the chief problem, and this problem rested squarely with the clearing banks. It was inevitable that the local bank manager would be the dominant factor in the supply of capital, and more initiative and greater authority must be given to him, as he alone could assess the real security behind increased current assets, future cash flow, and the skill of the people running the business.

In particular, local bank managers should be given higher lending limits. If their lending limits had kept pace with inflation during the last 30 years, they would now be at a level of £15,000 or more. He pointed out that in

Bank disclosure campaign by Rome prosecutor

Rome, March 25.—Signor Enrico di Nicola, a deputy prosecutor, has opened a campaign to ascertain how leading banks carry certain assets on their books.

His first shot has been an official notice to two top officials that they will be formally questioned about how Banco di Roma, a big state-owned institute, has handled the problem. The "judicial communications" sometimes lead to formal indictments.

Signor Ferdinando Ventriglia, director general of the Treasury Ministry and formerly vice-president and managing director of Banco di Roma, and Signor Giovanni Guidi, one of the bank's managing directors, are the officials.

The assets concerned are known as "internal reserves". Up until the fiscal year ended December 31, 1974, banks reported these only to Banca d'Italia and to each bank's majority shareholder.

—AP-Dow Jones.

Renault to oust British Mini in Japan

Tokyo, March 25.—Renault cars are to reappear on the Japanese market probably later this year, after a three-year absence.

A Capital Enterprise Limited, a Japanese foreign car distributor, announced this after concluding an agency deal with Renault for the sale of small cars in Japan. Renault would replace British Mini Coopers, whose exports to Japan stop next month because of the rigid Japanese emission controls.

Renault's five-seater 4.5 GTL model was now being tested in Tokyo for the 1976 emission control standards, Capital said.

EMI-Oxy Metal deal

EMI Electronics is to take over part of the Oxy Metal Industries factory complex on the Sheerwater estate, Woking, Surrey, to accommodate an expansion programme.

Depreciated pound may force prices up by 1½ pc

By Tim Congdon

The Government believes that a 10 per cent depreciation of the pound causes a rise in the wholesale price index of about 2.7 per cent and in the retail price index of 2.9 per cent, after a lag of about a year.

This was disclosed in a recent answer by Mr Edmund Dell, the Paymaster General, to a parliamentary question by Mr Norman Lamont, Conservative MP for Kingston upon Thames.

The answer gives an important insight into the Government's thinking on the causes of inflation.

Mr Lamont's question also asked if the impact of depreciation varied for different rates. The Government's answer was that the effect of different rates of depreciation was roughly proportionate.

It follows from this that the Government considers that the 5 per cent depreciation of the pound earlier this month is likely to add nearly 1½ per cent to retail prices by spring next year.

A vital qualification to the calculations given by Mr Dell in his answer is that the 2.7 per cent figure for the wholesale price index excludes its food, feed, drink and tobacco components. Most of these items are imported in large amounts, with the implication that the inflation rate would be higher if they were included.

Mr Lamont, in a further parliamentary question, inquired about the relationship between exchange rate depreciation and the volume of imports and exports.

In reply, Mr Dell said that the Government believed a 1 per cent drop in the exchange rate caused "an increase of the order of 1½ per cent in the volume of exports of manufactured goods and a fall of 1 per cent in the volume of imports of manufactures".

Mr Dell added that the estimates rested on three assumptions—that the initial gain in competitiveness was maintained, that the level of activity implied no serious domestic supply constraints and that the changes in the volume of imports excluded the effects of the higher level of domestic activity.

Policy view: A criticism of the common view that the Government is deliberately lowering the exchange rate to achieve domestic policy objectives is contained in the latest *Morgan Grenfell Economic Review*.

The Review suggests that the authorities have been pursuing a "neutral" policy "in the sense that the rate has been managed so as to minimize the effect of domestic inflation on international competitiveness".

Lord Thorneycroft cites 25pc VAT rate for TV sales slump

By Our Commercial Editor

Britain's colour television makers were facing disaster as falling sales forced them to operate at about 50 per cent of capacity, Lord Thorneycroft, president of the Radio Industry Council, said yesterday.

Lord Thorneycroft was making a plea to the Chancellor to cut the 25 per cent value-added tax rate on television sets and other electrical consumer goods in a pre-Budget letter.

"The effect of the 25 per cent rate of VAT on the consumer electronics industry and its associated components industry has been catastrophic," he said.

By 1973 British manufacturing capacity for colour televisions had been built up to an annual output of 2.4 million receivers. Deliveries of colour televisions that year amounted to 2.7 million, of which Britain's makers accounted for 2.08 million.

The following year deliveries were down to 2.22 million, with the British share at 1.77 million, and last year the total delivered plunged to 1.59 million with domestic production at 1.33 million.

If 25 per cent VAT stayed the Radio Industry Council estimated that sales this year

could decline still further to around 1.4 million, of which the British share would be about 1.2 million.

This gloomy forecast follows that made earlier this month by the British Radio Equipment Manufacturers' Association. Budget action apart, it said, a sales improvement in colour televisions was not expected until towards the end of this year.

January deliveries of colour televisions were 40 per cent down on the same month of last year after being 28 per cent down for 1975 as a whole compared with the previous year.

Lord Thorneycroft urged on the Chancellor a gradual scaling down from 25 per cent VAT to 15 per cent with a further adjustment of credit restrictions by reducing the present rental deposit of 25 weeks to 20 weeks.

While the prospects for colour television sales are bleak there have been some signs of improvement in monochrome television, where the rate of decline in deliveries eased in January, and in audio stereo systems which have seen some very marginal decline for some months. Radio receiver deliveries in January were in fact up on the previous year.

Stockbuilding review dampens revival hope

By Melvyn Westlake

The stockbuilding industry's physical stock towards the end of last year was very much smaller than it first appeared.

Coming after the downward revision in industry's output figures and the ebbing of the stockpile, the stockbuilding industry's latest information about stock levels must temper optimism about the early strength of Britain's economic revival.

According to figures published yesterday by the Department of Industry, total stocks rose just 55m during the fourth quarter, compared with an initial estimate of 69m (at 1970 prices and seasonally adjusted). However, though disappointing, this sector figures confirm that the run-down of stocks to September—a principal contributor to the recession—had come to an end for industry generally.

The final quarter downward revision for stockbuilding partly stemmed from the discovery that the manufacturing sector had reduced stocks by more than first thought—now 65m rather than 85m. Manufacturers' holdings of materials and finished goods, as well as the level of work in progress and holdings of finished goods.

In addition, positive stock building by wholesalers was less than estimated. Only retailers' stocks have not been revised, and this sector is the only strong area where stock rebuilding is under way.

During 1975, industry's stocks fell £479m to £13,624m, most significantly in the stocks of "other manufacturing" industries which fell by about £130m, or 11 per cent.

In contrast, the estimates for capital expenditure during the fourth quarter, also published yesterday, have been revised upwards. Total spending on productive assets by industry is now put at £897m, or £20m more than first estimated, while that for manufacturers rises £9m to £422m.

CAPITAL SPENDING			
The following are the revised figures published today by the Department of Industry for the fourth quarter expenditure on manufacturing, distributive, service and shipbuilding industries and for the physical increase in industry's stocks all seasonally adjusted at 1970 prices:			
	Total	Inv.	Stocks
1972	4,178	1,738	-138
1973	4,476	1,864	832
1974	4,455	2,087	678
1975	3,857	1,806	-479
1972 Q1	1,029	459	-73
Q2	1,047	429	-47
Q3	1,025	423	-45
Q4	1,076	428	-27
1973 Q1	1,138	458	254
Q2	1,057	443	277
Q3	1,115	488	123
Q4	1,166	476	179
1974 Q1	1,101	519	-72
Q2	1,086	513	261
Q3	1,135	516	367
Q4	1,132	539	134
1975 Q1	1,022	493	-92
Q2	977	457	-218
Q3	961	434	-173
Q4	897	422	5

of "other manufacturing" industries which fell by about £130m, or 11 per cent.

In contrast, the estimates for capital expenditure during the fourth quarter, also published yesterday, have been revised upwards. Total spending on productive assets by industry is now put at £897m, or £20m more than first estimated, while that for manufacturers rises £9m to £422m.

Chrysler chief backs UK offshoot

Chrysler UK had a long-term future as a successful company, and British press reports that it would not be in existence in two years' time were "ridiculous", Mr Gene Caffero, president of Chrysler Corporation, said yesterday.

In a statement made for the first time by Chrysler, the new external house newspaper of Chrysler UK, he said: "We are counting on the British company being a permanent part of Chrysler activities."

"It represents an opportunity for us and we have excess capacity in Britain. I should like to see it utilized."

"In all the publicity surrounding the agreement with the Government, the extent of the corporation's financial involvement has been overlooked. We are guaranteeing directly and indirectly loans of £90m."

"We are investing a further £10-12m this year. We have waived prior loans to Chrysler UK which, with interest, total £19m."

"We have said we will consider further investments in the British company and we shall be taking a decision on that by the end of next year. We are backing the operations of our British subsidiary not with a tremendous amount of time and effort but with large amounts of money."

Docks strike halts china clay exports

Eighteen ships were anchored off the south Cornish coast yesterday unable to enter the two china clay ports of Fowey and Par, because of a strike by 103 dockers over pay. Both ports handle only china clay exports, and the strike may have extensive effects on the Cornish china clay industry.

No move was made yesterday by the dockers, members of the Transport and General Workers' Union, or the port operators, English China Clay Co, which last year exported £51m worth of china clay.

A company spokesman said: "The dispute arose from the introduction of new loading equipment at the port of Fowey. The dockers there asked for extra payments which would have breached the pay code."

£100,000 state grant to boost machine tools

First grant to be made under the Government's £200,000 scheme for encouraging investment in Britain's machine tool industry is to be taken up by Cincinnati Milacron, of Birmingham.

The company will receive a £100,000 grant towards the £600,000 cost of a new heat treatment plant to be built at the company's existing small parts manufacturing factory at Tamworth.

Fisheries plea to Mr Peart

Shareholders of Associated Fisheries yesterday took the unprecedented step of instructing their chairman to send "a statement of concern" on their behalf to Mr Peart, Minister of Agriculture, Fisheries and Food.

A shareholders' statement from the company's annual general meeting called on the Government to provide "urgent assistance to stop the destruction of the industry."

The statement said the lack of a coherent national policy for the fishing industry was leading to ships being scrapped, the permanent closure of ports facilities, redundancies and heavy financial losses for shareholders and, ultimately, the nation.

Mr P. M. Tapscott, company chairman, told the meeting that during the last financial year the company's oil bill was more than £5m. However, with the benefit of new equipment results were now improving.

Pay dispute threatens R-R engine plant

Rolls-Royce (1971) Ltd will next week set a date for the closure of the aero engine works at Bristol if a strike by more than 500 electricians and toolmen continues. The plant, with 13,000 workers, makes engines for Concorde, the MRCA fighter aircraft and the Harrier.

The strike, started last Friday, is over a claim for pay differentials.

World textile upturn 'still awaited'

There was still no sign of a worldwide recovery in textiles, although the recession may have horned out, Dr Philip Smith, chairman of the Manchester-based Shirley Institute, the international textiles research association, said at the annual meeting yesterday.

Reporting a loss of £31,363 last year, Dr Smith said they were budgeting for a further loss this year.

LETTERS TO THE EDITOR

Cheap imports and the future of the British textile industry

From Dr P. W. Foster

Sir, In his attack on the chairman of Carrington Virella, Mr Birkh writes (March 23) as if perfect free trade existed and that such unpleasant things as dumping did not exist. Unfortunately, we live in an imperfect world, and some idealists have not realized this yet.

Several United Kingdom companies have suffered, as has Carrington Virella, with imports of, for example, woven bulked polyester fabrics in commodity quantities. Imports have been coming into this country from the Far East at price levels which are so low that, to compete, we would have to have to obtain the textured yarn for free.

Mr Birkh seems to argue that such dumping must benefit the eventual United Kingdom consumer. On a very short-term view he may be right, if the price advantages are fully passed on. However, we have now evolved to a situation in the textile industry of the United Kingdom where large profits are being made in the high streets of Great Britain by large multiple retailers, most of whom import very substantial percentages of their merchandise; but then as one moves

back into the manufacturing end of the industry, through the textile production sequence of retailer, wholesaler, maker up and cutter, dyer and finisher, weaver or knitter, yarn spinner, polymer manufacturer, one finds an increasingly depressing picture. For example, the synthetic fibre producers of Europe alone are now estimated to be losing £5m per week.

There are sufficient historic parallels to show where the sequence of events leads. The textile industry of Sweden was largely wiped out 10-15 years ago by imports. At present, the German textile industry, facing the same threat, is leaving Germany in the same position as Sweden, but with a chemical and synthetic fibre business benefit of home duties. Sweden could stand the loss of the jobs involved, Germany may be able to do so. I doubt whether the British textile industry could.

As an industry the textile

trade in the United Kingdom in all its ramifications is the largest employer of labour in the country. To allow it, and the attendant industries dependent on it, such as the large chemical companies, to be dismantled and the jobs exported abroad is to foster unemployment on a scale that, in my opinion, cannot be compensated for by the expansion of the rest of United Kingdom industry.

I believe that import controls rapidly applied are necessary to control the excesses of some of our unprincipled competitors and of our largest United Kingdom retailers. The latter are driven by profit motives to seek out distress sales, wherever in the world they can find them. We need, therefore, a Department of Industry, staffed with personnel who have the knowledge of a rapidly moving target, and the motivation to take actions that are in the long-term good for the country and its people, rather than actions based on short-term political expediency.

Yours faithfully,
P. W. FOSTER,
The Brackens,
Exeter Hill,
Devon.
March 24.

British Rail's passenger fare strategy

From Dr Donald Longson

Sir, At a time when British Rail is facing adversity on many fronts, it is easy to understand and share Mr Ellison's satisfaction (March 23) that the London/Birmingham service is profitable and useful to the business community. I hope other similar streams of traffic will be identified and exploited, but cannot accept the inference that special circumstances in a sector of the rail network should justify the general financial policy.

The health of British Rail depends greatly on the total load carried but no evidence is cited, suggesting that the proportion of passengers, representing a random sample of the travelling public, is greater than it would be with lower fares. One can confidently suspect the contrary; if more ordinary passengers were attracted to the London/Birmingham route despite higher fares, and against the national trend, it would be a chance occurrence.

It is much more probable that

lower fares, or greater fare differentials between first and second class, would attract more passengers and our distinguished foreign customers would be unlikely to switch to the M1 motorway.

A stroke of good luck, inspired promotion, or tapping a lucrative and possibly unique source of revenue will not dispel the widespread belief that the rail industry, driven by despair, is concentrating on the screw which impinges least on its internal policies.

In the long run this is unlikely to be the wisest course. Yours faithfully,
DONALD LONGSON,
24 Torkington Road,
Wimbold, Cheshire, SK9 2AE.
March 24.

of those where the first-class accommodation is sold before the second."

Having travelled to Birmingham first-class recently, I cannot understand why it is sold at all. The seats are hard, there are no compartments to give an alternative to the open saloon coaches which not everyone likes, and no escape from the obligatory tables—often unwieldy—which are cramping and get in the way of one's luggage.

This is I recognize, just a manifestation of British Rail's evident policy, increasingly observable as new stock comes into use, of removing from first-class travel most of the elements of added comfort, space and elegance which used to make it seem worth paying extra for. When is this policy to be reversed?

Yours faithfully,
A. S. GAIN,
25 King Henry's Road,
Lewes, Sussex BN7 1BY.
March 24.

The government as paymaster

From Mr J. C. Smith

Sir, Being a person much discussed about of company legislation arrives on the already over-laden desks of company directors might not a little time and space be devoted towards giving companies a more sporting chance of facing the Revenue and HM Customs and Excise have enormous powers in the collection of monies, the reverse is not the case, as a company can be in the invidious position of facing immediate threat of bailiffs from one department which is a creditor, whilst simultaneously being told of the computer problems on payment by another department which is a long-standing debtor.

Very recently there have been

some spectacular liquidations in which certain government departments and local councils were heavily criticized for failure to pay accounts within a reasonable period and perhaps one answer might be to allow companies the right to set-off for one department's debt against another department's claim. Such a move would redress the present inequitable imbalance and give companies the chance to invest the precious capital, at present locked in government computers, for the creation of more jobs.

Yours faithfully,
J. C. SMITH,
Blakeney House,
Crossway,
Shawford,
Hampshire.
March 15.

The thermal insulation of houses

From Mr A. Russell

Sir, Mr Eric Ambrose (March 24), not for the first time, has highlighted the general lack of understanding of the vital importance to this country of a high standard of thermal insulation for dwellings.

If energy conservation is our first priority (and who can doubt it since fuel costs have been the prime cause of inflation) why does not the Government follow the sensible example of neighbours like the Dutch who subsidize thermal insulation for walls and roofs by large grants? Apart from reduction in the use of energy the capital cost would be repaid with ever increasing speed as fuel prices continue to rise. A further increase in our electricity bills is promised for July.

At the very least, interest free government loans repayable over five years would be practical, non-inflationary policies met from consequent savings. It would be an even more attractive proposition than the present willingness of building societies to lend money to existing borrowers for this purpose.

That the Government itself realizes this essential need is evidenced by its eagerness to reduce energy expenditure in its own buildings of all types by voting large sums for the upgrading of thermal insulation standards. But why stop there since we are all in the same boat?

Yours faithfully,
A. RUSSELL,
42 Ravenscroft Avenue,
London, NW11.
March 24.

Unions' voice

From Mr Christopher Robinson

Sir, Were management just a matter of making wheels go round, then may be the National Consumer Council expressing opposition to trades union board members, has a point.

But when some large companies manipulate, merge, and manage great chunks of the working population, and their way of life, to produce near monopoly control with rationalized choice of product, distribution, and sales outlets, then some other than the CBI "consultation" on many matters" seems needed.

Or is it too stringent to ask that some of the less pleasant managerial techniques be subjected to other than one-sided scrutiny?

Yours faithfully,
CHRISTOPHER ROBINSON,
Stowood,
Oxford OX3 9SR.

Communicators

From Mr R. A. J. Kirkby

Sir, Unfortunately I have to scan the "situations vacant" columns with anxious attention, and have been struck by the number of jobs available at high salaries for persons who can negotiate and liaise with central and local government departments. This seems to be a new profession in its own right, and is presumably yet another indicator of the level of government intervention (interference?) in business.

Has anyone costed this aspect of modern business staffing? I am, Sir, your obedient servant.

ROBIN A. J. KIRKBY,
15 New Street,
Millbrook,
Plymouth.
March 24.

The Prudential Assurance Company Limited.

The unaudited results for the Company for 1975 are set out below with comparative figures for earlier years.

		1975	1974	1973	1972
Life:		£m	£m	£m	£m
Surplus		186.2	136.5	155.4	140.1
Policyholders' bonus		174.7	127.7	146.1	131.6
To Profit and Loss Account		11.5	8.8	9.3	8.5
Non-Life:					
Underwriting profit/[loss]		[2.0]	[4.7]	4.1	3.5
Investment income		9.7	6.3	5.3	3.2
Taxation		7.7	1.6	9.4	6.7
To Profit and Loss Account		3.6	0.2	4.3	2.4
Profit and Loss:					
Life		11.5	8.8	9.3	8.5
Non-Life		4.1	1.4	5.1	4.3
Account:		2.5	1.9	1.8	3.4
Other net income		38.1	12.1	16.2	16.2
Profit for the year		3.3	0.6	5.8	5.6
Retained profits		14.8	11.5	10.4	10.6
Dividend cost					
Equivalent gross dividend per share		8.326p	7.711p	6.729p	6.240p

Earnings per share are not appropriate for life assurance business and have not therefore been given.

For the Prudential group as a whole the net surplus assets for on-life business as at 31 December 1975 represented approximately 42% of the no-life premium income for the group.

Bonuses on participating life and annuity business have been declared as follows:

Ordinary Branch Assurances (United Kingdom)		£3.80%	£3.50%
(a) Reversionary bonus:			
(b) Terminal bonus for policies issued in 1974 (1972) or earlier, payable on claims by death or maturity in the twelve months commencing 1 April 1976. (Examples shown below.)			
Year of issue	%	%	%
1936	£98.00	(£89.50)	
1946	£75.20	(£68.50)	
1956	£47.00	(£40.60)	
1961	£31.00	(£24.60)	
1966	£15.30	(£9.70)	

Industrial Branch Assurances		£2.60%	£2.60%
(a) Reversionary bonus:			
(b) Terminal bonus for policies issued in 1972 (1972) or earlier payable on claims by death or maturity in the twelve months commencing 1 April 1976. (Examples shown below.)			
Year of issue	%	%	%
1936	£89.50	(£89.50)	
1946	£68.50	(£68.50)	
1956	£40.60	(£40.60)	
1961	£24.60	(£24.60)	
1966	£9.70	(£9.70)	

Group Pension Business (United Kingdom)

The rate of annual bonus under deferred annuity contracts has been increased to 6.00% compound (5.50%) and under cash accumulation contracts to 3.90% (3.45%). Terminal bonus rates have also been increased.

Other Business

The rates of bonus on United Kingdom personal retirement annuity plans have been increased and increases have been made in some bonus rates for overseas business.

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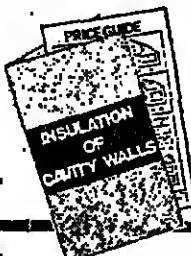
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Commitment to 'save it'

by Derek Harris

Mr Anthony Wedgwood Benn, Secretary of State for Energy, was perhaps suitably tart when he told the Commons Select Committee on Science and Technology that the 18-nation International Energy Agency had described Britain's energy conservation policy as one of the most imaginative so far.

It was the select committee which had earlier labelled as feeble the Department of Energy's efforts to trim energy use with the Save It campaign and other appeals.

The truth appears to be that the department's efforts since it launched into energy conservation in December 1974 have met both success and comparative failure. It depends on the criteria applied; it is not just a matter of meeting the oil crisis, although that problem is big enough, but of laying the foundation for an energy conservation policy that has to look beyond the turn of the century.

It is clear that the commitment to energy conservation in Britain will go on. The Fuel and Electricity Control Act, published in 1973 as an emergency expedient to meet the oil crisis and since extended to next November, has been superseded by the Energy Bill published on March 12. This establishes permanent and reserve powers for controlling fuel and electricity and for conservation measures.

The Bill partly has to do with keeping going the machinery for controlling the supply and use of energy in an emergency. It will allow Britain to meet its stocks commitments under the International Energy Agency treaty, with power to control prices of petroleum and paraffin in another emergency. And it will strengthen Britain's hold on gas supplies from the North Sea and other offshore fields.

But it will mean retention and extension of energy conservation measures taken under the 1973 Act, such as the heating restriction in offices and other large buildings to 68° Fahrenheit and the curbing of lighting during daylight on most outdoor advertising and other signs. The lower speed limits on roads will also stay.

A new measure which the Government hopes to bring in under the Energy Bill in April next year is fuel consumption tests for every make of car on the British market. A number of ways are proposed to make it easy

for prospective car buyers to make accurate comparisons between cars, a move which is expected to encourage sales of more economical vehicles and to stimulate manufacturers into concentrating even more on producing optimum economy from engines.

Cor advertisements will have to carry the government-approved performance figures and car handbooks will also have to include the results.

It is also proposed under the Bill that garages selling cars will have to display only the performance results of the cars they are selling but figures for competitive models from other makers. This may not find favour with the trade, including some manufacturers, but should run home the conservation message in the money-in-your-pocket terms that are most likely to affect prospective buyers.

The petrol and diesel consumption tests will probably include a "town" figure, based on busy urban roads, as well as constant speed figures.

A dual estimate system of this kind operates in the United States and has been widely welcomed by vehicle owners. It appears to have concentrated much more attention on car economy as a sales factor and has got rid of misleading car advertisement claims.

Measures of this kind, useful as they are, show clearly the problem of "selling" the idea of energy conservation. This is the basic difficulty with which the Government has been wrestling since it started the campaign and which there is no simple, single answer.

For every Marks & Spencer or Baker Perkins which responded to the energy conservation programme with definite plans, there have been hundreds of companies which appear to have done little or nothing except to make sure that more lights are switched off. Yet with nearly half of Britain's energy used by industry this is the area which, in the long-term, is going to make the biggest difference.

Total energy consumption in Britain last year was 3 per cent down on the previous year. Since 1974 included extensive cutbacks during the three-day week, the underlying trend of reduction last year must have been well in excess of 3 per cent.

A comparison between the last nine months of last year and the same period of 1974

shows a fall in total consumption nearer 7 per cent and probably a more realistic reading of the energy saving trend.

The Save It campaign has had some quantifiable results. The do-it-yourself market in hot water tank lagging jackets has increased fourfold according to the Insulation Jacket Manufacturers Federation.

Some loft insulation manufacturers logged sales increases of more than 40 per cent in 1973-74 and about 35 per cent last year. Double-glazing sales have been mounting, with increases last year of 30 per cent or more over the year before. Foam insulation of cavity walls is increasing.

The leap in petrol prices seems to have persuaded motorists to make fewer journeys. Despite an increase in the number of vehicles there was about a 2 per cent saving in petrol consumption in Britain last year.

Smaller, more economical cars have increased in popularity and the sales of motor cycles and smaller machines have been some cases the best for 15 years or more. Against that, sales in the luxury two-litre car class, which had been badly affected seem to be showing signs of recovery.

Away from the domestic sector there have undoubtedly been gains. The Property Services Agency, for instance, in the first year of a five-year plan to save fuel use in public buildings achieved a saving of £8.5m out of a total fuel bill of £100m. It is aiming for an eventual 20 per cent fuel saving.

Encouraging other industries

To encourage other industries to follow suit the Department of Energy has produced a series of studies showing what the nationalized fuel industries, three major oil companies, the British Steel Corporation and ICI's petrochemicals division have been doing to save energy.

Good housekeeping is shown to lead to substantial savings of between 5 and 10 per cent in the short term. Capital schemes aimed at energy saving can produce savings of between 2 and 10 per cent, typically with a return of the investment in two or three years.

In the longer term, ICI at one of its large fibre plants even looks to savings of as much as 35 to 40 per cent when plans for rationalization and increased output are completed.

But these concerns, in one form or another, have strong vested interests in promoting energy conservation. Steel and petrochemicals, for instance, are fuel-intensive industries.

So far few concerns have taken up the Department of Energy's loan scheme for capital expenditure on energy-saving equipment. But with the loans being offered at present market rates of interest the lack of success there may be more apparent than real. With the economy showing signs of improvement this looks like changing and energy-saving schemes could be among the beneficiaries.

Lord Lowell-Davis, whose appointment as Minister for Energy Conservation is putting more backbone and consistency into the Government's conservation policy, can be expected to take the spirit of the Save It campaign into new areas even though a specific new phase has not yet been formulated for Treasury approval.

Most fruitful source

There are likely to be many smaller companies which have achieved energy savings. This could be the most fruitful untapped source of potential energy saving, since the bigger companies are more likely to appreciate earlier the economic arguments for mounting a conservation policy of research and implementation.

One-day visits to companies to look at problems and offer advice will be done on a three-year rolling programme under the eye of the inter-departmental Industry Energy Thrift Scheme.

The Energy Audit Scheme will take a deeper look at difficulties and possible answers in the use of energy by industry and should stimulate research sector by sector.

Lord Lowell-Davis has remarked that energy conservation has to be a long-term policy maintained over a period of years. The stakes are high; the department reckons that if industry and commerce cut their energy bills by 10 per cent they would save themselves £2m every working day.

The author is Commercial Editor, The Times.

Poor families find the heat too much

by Pat Healy

The enormous increases in fuel prices over the past few years have aroused considerable, if heated, public concern for the plight of the poor. That concern focuses particularly on pensioners who have died from hypothermia.

But much of the public anger is misplaced. Every winter, 60,000 more old people die than in the summer; and that has been happening year in, year out, including in the good old days when the fuel supply industries were heavily subsidized and heating was cheaper.

There is no evidence so far that more old people have died of hypothermia since fuel prices began to rise to reflect the ending of subsidies. But there is plenty of evidence that poor families are finding it more and more difficult to meet their increasing fuel bills.

What the price rises are demonstrating clearly is what has always been evident: that pensioners and poor families cannot afford enough heat unless they have enough money.

The Government has now admitted that fuel prices have risen faster to recent months than pensioners and other benefits, which means that the poor are having to stretch already limited incomes much further if they are to have adequate warmth and hot water.

Subsidies effectively hid the situation from the public. Now that the better off, too, are having to stretch their incomes to maintain their standards it is possible to see what the likely impact is on the least well off.

In a sense, pensioners are the best protected of the poor. They tend to live in smaller houses or flats than the rest of the population, which reduces their fuel needs. If they claim supplementary benefit, they automatically receive heating allowances on top. Public concern for them is so marked that electricity and gas engineers sent to cut off their supplies if they do not meet their bills are most unlikely to carry out their orders.

However, pensioners still do not have high enough incomes to pay for adequate heating. Data from the family expenditure surveys for 1971-74 show that pensioners spend almost as much in cash terms on fuel, power and lighting as the average household. The proportion of their expenditure on those

items is one and a half times the average. Figures for 1975, due in the autumn, will be the first hard evidence on the relative impact of the higher prices for the two groups.

But families with children are often in a worse situation. If they are on supplementary benefit, they are much less likely than pensioners to have extra heating allowances unless they are in a centrally heated council estate where special arrangements have been made. Such cases are rare.

They can claim an exceptional needs payment to meet a specific bill, but those are rarely given and are often conditional upon the family undertaking "voluntary savings" to avoid arrears in future. The rules for voluntary savings and exceptional needs payments have been eased after an agreement between the Supplementary Benefits Commission and the fuel industries, and they may offer them more support in future.

But many families have already given up hope of help from supplementary benefits and turn to local authorities for help. Social workers are becoming increasingly concerned because, they argue, each help the poor are having to stretch already limited incomes much further if they are to have adequate warmth and hot water.

They are more ready to help working families, who cannot turn to supplementary benefits for help but are just as likely to face disconnections if their incomes are significantly below average. Last year, there were 125,000 electricity disconnections which the Department of Energy says is a normal figure.

The voluntary organizations were a fundamental change in pricing structure to avoid more old people dying of hypothermia because they will not turn on heating for fear of disconnection if they run up high fuel bills, and more children being permanently damaged by living in too low temperatures. Present pricing structures are biased heavily in favour of those people with the heaviest consumption.

The voluntary organizations have pressed the Government for an inverted tariff system, so that small consumers pay the least per unit and the heaviest consumers the most.

As a rough rule of thumb, they argue, that would take care of most of the poor. A

government working party that looked at the issue came to the same conclusion, but because inverting tariffs would also mean heavier bills for a significant number of poor people, it decided it was not a viable proposition. Its analysis of the type of system most favoured by the voluntary organizations showed that it would help most of the poor and hurt the smallest number. That option has been ruled out by the Government.

But there is now hope that a much more radical and fundamental approach will be adopted, not necessarily by this Government but at least by large sections of the labour movement.

In a paper prepared by two policy advisers to Mr Benn, Secretary of State for Energy, the idea is put that high prices will continue for the foreseeable future. The

paper argues that, given little chance of bringing down prices, other ways of ensuring that working families are not forced to return to prewar heating standards must be found.

The way this can be done, the paper argues, is not to alter price structures but to ensure that people can heat their houses properly with much less fuel. The way to do that would be to adapt the housing stock so that energy consumption needs are drastically cut.

The heauty of the idea is that it would, over a period of perhaps 25 years, change the housing stock sufficiently to ensure that people could always have enough warmth and hot water however high prices rose.

The author is Social Services Correspondent, The Times.

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On April 8th, 1976, The Times will be publishing a Special Report examining the work of the Industry Cooperative Programme within the United Nations, which supports the development of agro-allied industries in the third world.

Among the articles to be included are how developing countries choose multinational business partnerships;

research into food and seed production; the meat, dairy and fishing industries; mechanized farming systems.

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Work starts on third-generation nuclear programme

by Kenneth Owen

As the first of Britain's long-awaited, second-generation nuclear power stations—advanced gas-cooled reactors (AGR)—designs—begin to contribute power to the national grid, the Nuclear Power Company and the Central Electricity Generating Board have begun design work leading to the third-generation nuclear programme.

Announced by the Government in July, 1974, this programme involves the steam-generating heavy water reactor (SGHWR). The 1974 commitment is to a modest, four-year programme of "not more than 4,000 megawatts".

Looking farther ahead, there is the prospect of more SGHWR orders; the possibility of orders for American-design light-water reactors (LWRs); despite their rejection in 1974; and the possibility (though hopes have dimmed recently) of international cooperation on the highly efficient high-temperature reactor (HTR).

To the longer term the even more efficient fast breeder reactor remains the Government's main objective, again with the accent on international cooperation.

Experience with the first-generation Magnox stations and with the AGRs has been reflected in the planning for the SGHWR programme. Big changes have been made in the CEB's project management procedures, in particular, to try to avoid the sort of huge delays and extra costs which have been encountered with the AGRs.

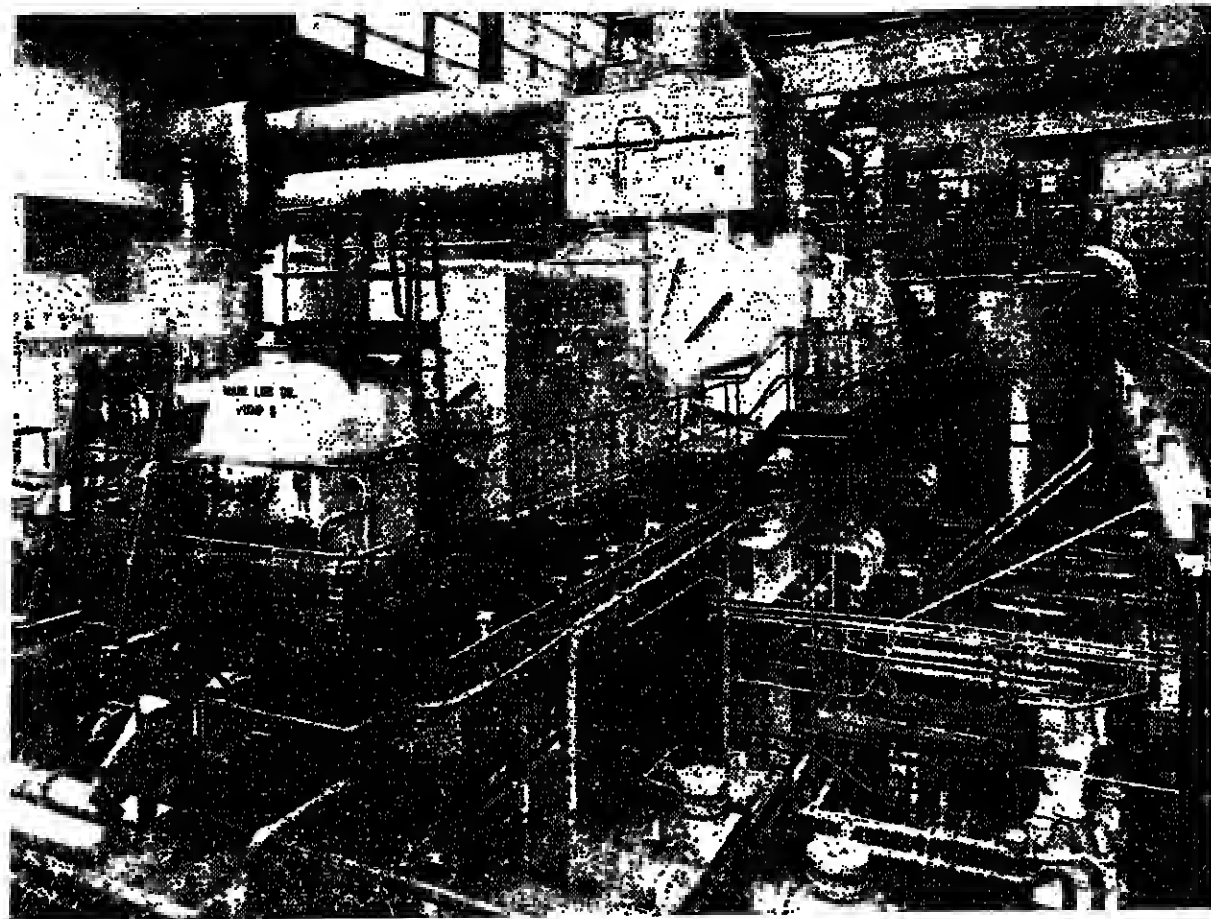
Reviewing the first-generation Magnox programme, Mr Arthur Hawkins, chairman of the Central Electricity Generating Board, said: "When we launched it we had no guarantee of success. To carry it out we had to push forward the existing boundaries of technology."

"One consequence of this was that we experienced a corrosion problem and, as a result, some derating has been necessary."

But the programme had undoubtedly been highly successful, Mr Hawkins said, and had brought great rewards to the United Kingdom.

At the end of 1974 total world generation of nuclear power (excluding the Soviet Union) amounted to nearly 300 million megawatt-hours. Just over 40 per cent of this total was contributed by Britain's 11 Magnox stations.

Although the Magnox stations represented only



One of the two 660-megawatt turbo-generator units installed at the Central Electricity Generating Board's Hinkley Point B nuclear power station, near Bridgwater, Somerset. Hinkley B is the first of the board's advanced gas-cooled reactor power stations to raise power.

about 6 per cent of the CEB's plant capacity in that year, they accounted for almost 10 per cent of the units generated.

Nuclear power had now reached the stage on the CEB's system, Mr Hawkins said, where it was producing electricity more cheaply than coal or oil-fired generation. There was no doubt that the Magnox programme was costing overall less than would an equivalent programme of contemporary coal-fired stations.

In 1974 the CEB's Magnox stations cost £49m more in depreciation, interest and operating expenses because they were nuclear. But they saved no less than £133m on the fuel bill, thus giving a net balance for the year of £84m in favour of the Magnox stations.

Troubles with the advanced gas-cooled reactor were outlined recently by Mr Robert Peddie, a board member of the CEBG. Contracts were placed with three consortia, each of which produced its own design.

It can now be seen," Mr Peddie said, "that there

was insufficient national resource in industry to undertake the high technology job of designing three prototype stations by three groups in isolation at the same time."

The greatest causes of delay had been the amount of design innovations and the failure to ensure that all prototype features were properly proved before being committed to production.

Oil leaks and vibrations showed up in reactor tests at Hinkley Point B and all circulators had to be stripped down, modified and rebuilt. Hartlepool and Heysham were delayed 13 months while insulation was redesigned and fixings already installed were stripped out and replaced with new designs.

This cost £30m and was not an isolated case, Mr Peddie said. Other AGR difficulties stemmed from the absence of firm safety requirements at a sufficiently early stage of the project.

The consortia were given no specific safety criteria

against which to design.

Not surprisingly, they frequently came up with different criteria for judging the design. Much valuable professional time was wasted in argument. Although agreement was usually reached in time, this often involved modifications to already installed equipment.

The classic case of disagreement concerned the Hartlepool boilers. The inspector called for a double steel closure on the boilers and caused a two-year delay in the programme. Resultant extra costs amounted to about £25m.

The main lesson of the AGR, Mr Peddie emphasised, was that, where prototype equipment was involved, it must be identified at the first stages of the project; and detailed programmes covering prototype concepts and detailed design, manufacture and test must be produced and monitored.

"Only thus can we ensure that the equipment is proved before the overall

design of the plant into which they are to work is frozen."

Expenditure patterns for nuclear power stations in general follow an S-shaped curve, with a low rate of spending in the early design stage, rising steeply as work on-site gets under way.

AGR experience showed that in risk areas for every £10,000 not spent at the appropriate time at the beginning of the project, costs of about £1m can be incurred for design, manufacture and associated time-dependent costs later.

This is the philosophy that is being applied in the development programme for the SGHWR, to take time at the beginning to get the design right; and to monitor carefully each stage and detail of the programme before moving on to the next.

This marks a big change in the attitude of the CEBG to the management of nuclear station construction projects. As a part of this new approach, the board is auditing the performance in quality assurance and pro-

gramme management of all its main suppliers.

About 500 such audits had been completed by the middle of last month. Those companies which are approved will receive benefits of compliance; those which are later selected to tender for particular items will undergo a further design management audit.

The first two AGR stations, one owned by the CEBG at Hinkley Point and the other by the South of Scotland Electricity Board at Hunterston, have just begun feeding power into the national grid.

Three more AGR stations are still being commissioned in 1977, 1978 and 1979.

"When these stations are in full operation," says Sir John Hill, chairman of the United Kingdom Atomic Energy Authority, "nuclear generation will correspond to about 20 per cent of electricity production in this country and will be equivalent to a consumption of nearly 25 million tons of coal per annum."

Now that the nuclear industry in Britain has been merged into a single company, and the Government has decided on the type of reactor it is to build, Sir John adds: "I hope we can achieve the continuity of ordering and manufacture which is so essential and which we have not had in the past."

"The fragmentation of the industry and the lack of continuity of ordering have been great impediments to the building up of a sound nuclear industry in this country."

Power stations, whether fossil-fuelled or nuclear, are extremely expensive, Sir John admits. There is no doubt that nuclear stations are a much cheaper way of generating electricity than is burning fossil fuels but, with electricity demand falling, it is clear that there will be a much reduced level of ordering of generating capacity for several years.

But the construction of power stations is a long-term undertaking, he insists. "We have got to look ahead to the electricity requirements of the 1990s and the early 1990s. We have got to make provision for adequate electricity in this long-term period."

"There is no doubt at all that we are going to require a very substantial nuclear programme for electricity generation and we must do what is necessary to achieve this objective."

The author is Technology Correspondent, The Times.

Falling demand brings cuts

by Peter Hill

Just a few weeks ago in the ordered calm of Church House, Westminster, one of the most remarkable encounters between the heads of two nationalised industries took place. It was Arthur Hawkins, the chairman of the Central Electricity Generating Board, and Sir Derek Ezra, the chairman of the National Coal Board, who were attempting to thrash out a policy for the two industries along with a group of trade union leaders under the chairmanship of Mr Wedgwood Benn, the Secretary of State for Energy.

It was the first of a series of forum type meetings organised by Mr Wedgwood Benn in an attempt to formulate energy policy; future meetings will include representatives from other energy industries. But while there was common agreement between the coal and electricity chiefs on a number of issues, Mr Hawkins made it clear that he and the CEBG, the NCB's largest customer, took a dim view of the NCB's pricing policies and of some of the suggestions made by the coal industry for helping it to sell more coal than would be the case otherwise.

Considerable quantities of coal are being produced more and more. It is still being burnt at the power stations but there has been a fall in the overall sales of electricity. The coal burn element of the CEBG's generation capacity remains large—some 70 per cent of total installed capacity can burn coal—although in 1953, when the electricity supply industry was established in its present form, coal accounted for 99 per cent of total generating capacity.

Coal still provides the bulk of its fuel requirements, despite the growth in the use of oil, gas and in the future, nuclear electricity generation. In the next 10 years it is coal which will still account for the bulk of the capacity in service at the time.

But what has concerned the CEBG is the pricing policies of the NCB. At the energy forum Mr Hawkins criticised what he called the "cavalier attitude" of the NCB in introducing large price increases without first entering into detailed consultations with the CEBG. At the beginning of this month the NCB introduced a 15 per cent rise in the price of coal sold to the CEBG, which will add £150m to the CEBG's fuel bill in a full year. This increase has important impli-

cations for the CEBG and for electricity consumers.

This was the fourth in a series of power station coal prices in two years and in this period the industry's coal bill has risen by 120 per cent. In the coming financial year the CEBG's coal bill will amount to some £1,150m. But this increase strikes at the heart of the CEBG's own predicament.

Its sales have been falling and in the year 1975-76 it has been selling less electricity than it did in 1972-73 as a result of reduced industrial activity, energy conservation and reaction of customers to higher energy costs.

It now has a surplus of generating capacity and in planning its fuel burn in the present financial year, it allowed for a 4 per cent decline in electricity consumption. Mr Hawkins and the CEBG have made it clear that they face a big difficulty.

"Electricity has entered a most difficult and challenging period as a result of the reduction in present and forecast levels of demand for its product. It is in a similar position to the coal industry in that its productive capacity far exceeds the present reduced demand for electricity," Mr Hawkins said recently.

It is in an attempt to soften the impact of this development that the CEBG, with cooperation from the trade unions, is now planning to bring forward the closure or part closure of 47 power stations over the next few years which are surplus to generating requirements.

The electricity industry has recently made a substantial downward revision of its consumption estimates for 1982-83. The Electricity Council has adopted a figure of 52,000 megawatts as the likely maximum demand for electricity in the winter of 1982-83; this represents a 3.5 per cent annual increase over the period on the provisional estimate for this winter of 41,000MW.

But the latest estimate for the 1982-83 winter is 2,000MW below the estimate made last year. The winter of 1981-82 and compares with estimates of 4.5 per cent increases over the six-year period. The industry has a current output capacity of 59,000MW with another 15,000MW of additional capacity under construction. The additional power station capacity is due for completion in 1981 and some of it will replace old and uneconomic plants.

The longer-term debate on an energy policy is likely to be some time in its formulation and after the first forum meeting, working parties are now working on specific issues. The coal and electricity industries have made their formal statements and at least each knows where the other stands. However, Mr Hawkins has made it abundantly clear that he is quite happy to burn more coal in his power stations provided he is able to sell more electricity. He will sell more electricity, provided it is priced competitively. Hence the call for more coal from low-cost pits. But for some time ahead coal will be a principal fuel used in the generation of electricity.

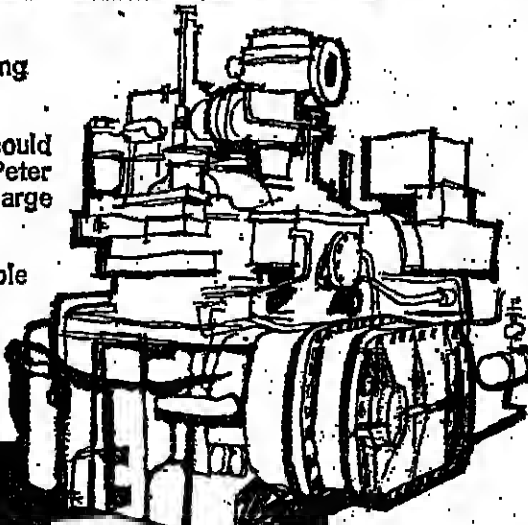
The author is Industrial Correspondent, The Times.

Brotherhood waste heat recovery

World reserves of conventional fuels are being used up at an ever increasing rate and nuclear power, of which there were such great hopes a generation ago, still meets only a very small percentage of our energy needs. It appears that the traditional oil, gas and coal will still have to meet most of our energy requirements over the next ten years.

An overall British energy policy and its implications for E.E.C. policies is uppermost in the minds of government

and joint planning meetings are being held to help the coal, gas and electricity industries to formulate a co-ordinated policy. This thinking could bring great benefits to Britain and Peter Brotherhood are ready to supply a large proportion of the machinery and technology that will, through the recovery of waste heat, make feasible the conservation of limited energy supplies.



The total energy concept is not new, but it is only in the last few years that its full potential has been appreciated.

The Brotherhood involvement has grown rapidly from the early 1950's and in the early 1960's the company was invited by B.P. Tenkers to provide a waste heat recovery turbine which would operate with a heat exchanger being installed in a tanker.

From those beginnings sprang a market which is now dominated by Brotherhood's who have supplied the lion's share of the marine waste heat recovery turbines in service today—nearly 200 units.

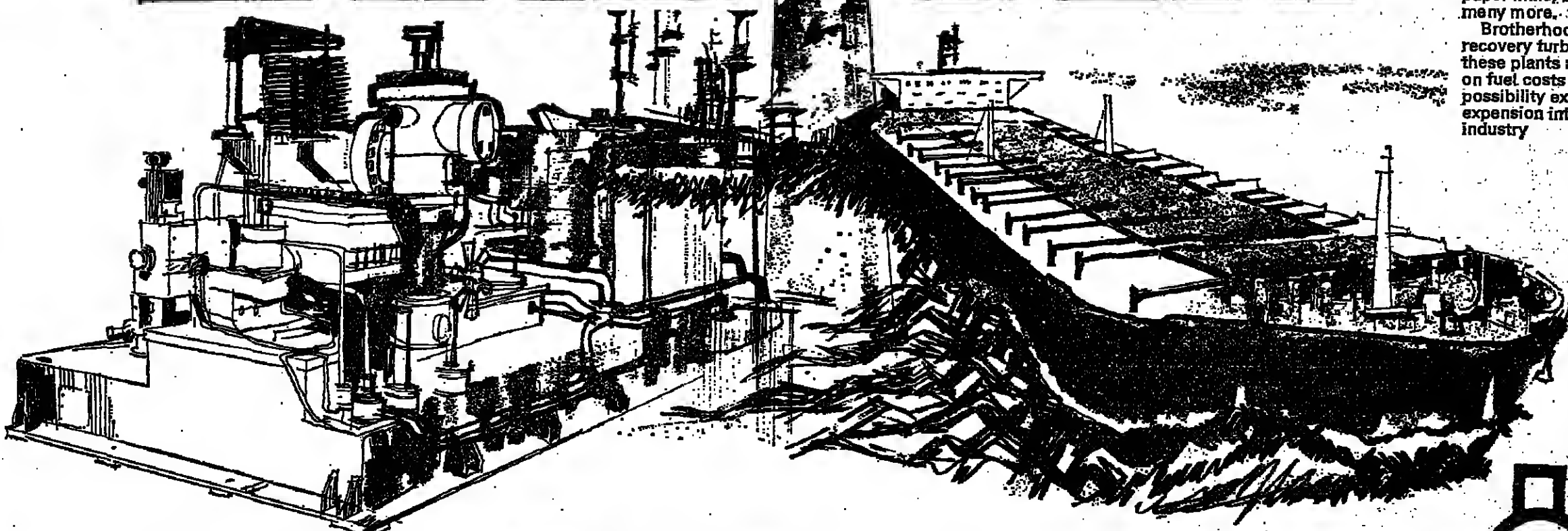
Brotherhood involvement in the industrial waste heat recovery market has grown steadily over recent years and with the signing of an agreement with the Thermo-Electron Corporation of Boston, Massachusetts, U.S.A., in 1975 a large potential market for this type of equipment has now opened up in the New World.

Waste heat recovery can be achieved from many sources of heat including diesel engine exhaust, gas turbine exhaust, stack gas, industrial furnace, and incinerator end, with the possibility of government loans, heat recovery is becoming an economically sound policy in more and more industries.

Waste heat can be and is being converted to usable energy in refineries, chemical and petrochemical plants, process or fertiliser plants, pulp and paper mills, breweries, sugar mills, and many more.

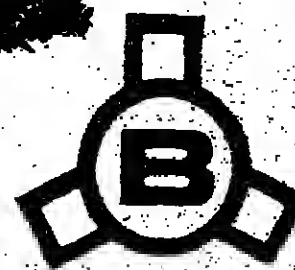
Brotherhood already have waste heat recovery turbines installed in many of these plants and, with a potential saving on fuel costs of up to 15%, a real possibility exists for a considerable expansion into ever widening areas of industry.

LAND & SEA



PETER BROTHERHOOD LIMITED

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BY THE FINANCIAL EDITOR

Another blow for the non-voter

If the Conservatives' ill-fated Companies Bill and continued pressure from Whitehall, the Stock Exchange and the big investment institutions have failed to convince shareholders that the day of the non-voting share is numbered, then the Rank Organisation rumpus the other day must have done.

To fairness in J. Lyons, though, which announced enfranchisement proposals yesterday, the idea has been under consideration for some time, but if the public comment is that the "trend of public opinion" suggests that the time is right, privately it is admitted that Rank's experience was a factor.

More specifically, though, Lyons wants to raise money by rights, and it acknowledges that that would have been difficult if not impossible without a franchise in the present climate.

Nevertheless, the complications of giving votes at Lyons seem to have been enormous in view of the extraordinary capital structure. Rothschilds, who incidentally masterminded the Rank enfranchisement, advising the company and J. Henry Schroder Wagg advising the controlling families, seem to have found a way through however, including an ingenious option for the voters to take warrants as compensation. What those warrants are worth—worth subscription at 200p between 1975 and 1985 against an ex-rights price of 127p—nobody's guess, but the family holders were apparently attracted by the idea.

As someone, perhaps unkindly, said yesterday they represent an optimistic surtax payers' alternative.

J. Lyons

A mere bagatelle

Vith no real profits momentum expected for another two years, Lyons's rights issue yesterday could have been timed more aptly, especially in the light of the hefty 4-for-3 call. But the rights bandwagon has been running out of steam recently, with several companies being forced to offer more generous terms—so time is not exactly on Lyons's side. The company has been living with its huge debt burden for me time now and only last night was being quite candid about the absolute need for the cash realised from property sales. Nevertheless, the 100p call at 105p a share is a mere bagatelle in relation to overall earnings of £236m and it will be generating virtually unchanged at 184 per cent.

Lyons' main concern at the moment is the damage that the 10p sterling has wrought on its foreign currencies, rather more than half of the 36m is in currencies other than sterling, and only half of it is financed domestically. Overseas subsidiaries, where a balance sheet surplus is in no extent mitigated by the loss to assets from the lower sterling rate.

At a time when Lyons was going to reduce its scale of drawings slightly, they have been inflated by around 10 per cent as a result of the weakness and any further devaluation could bring Lyons up against the borrowing limits imposed by the loan stock trust funds.

The rights issue also looks like an expensive way of raising money, particularly as the interest saving is likely to be outweighed by the higher cost of the dividend given Lyons's problems.

Meanwhile, Lyons estimates profits in the year to March 1976 at £210m against last year's £164m in line with stock market expectations though the 15m exceptional debit (against last year's credit of £26m) only arising from spending on a new bakery complex is only than expected.

A yield of 9.2 per cent on the rights price of 127p underlines the caution about Lyons



Mr. R. F. W. Scott, chairman of Lucas Industries: first-half profits up 60 per cent.

in the market. That is likely to mean that the underwriters have to work hard for their money, particularly as it is not certain if the family interests, who control 6.7 per cent of the equity, will take up their rights.

Prudential Assurance

Profits back to growth

Prudential's results offer a clear perspective on the hiatus suffered by the growth in policyholders' and shareholders' surpluses from life business in 1974 and, in Prud's case at least, on how strongly this growth has resumed since.

In 1974, the total surplus on life business declined by 12 per cent to £136.5m with a fall of similar magnitude in policyholders' bonus to £128m and a 5 per cent drop, to £8.8m, in the transfer to profit and loss account, surplus depends, of course, partly upon the actuarial rate of interest used in valuing assets and liabilities of the life fund. A higher rate—adopted by many life offices in 1974 in line with general interest rates and to compensate for reduced asset values—reduced the surplus, while the reduction in valuation rates last year had the reverse effect.

Policyholders' bonus rose 37 per cent, also, to £174.7m, and the transfer to P & L by 30 per cent to £11.5m. On top of this, Prud more than halved its underwriting loss on one-life business to £2m (suggesting heavy reserve provisioning in 1974) and raised investment income by 54 per cent to £9.7m, giving an after-tax transfer to P & L of £4.1m on this side. Other net income, taking benefit from the rights issue, rose from £19m to £25m.

The sum of all this was below the line profits of £18.1m which (this time) comfortably cover the fully increased dividend. At 139p, up 4p yesterday, Prud shares yield exactly 6 per cent—a fair premium over other companies in a sector which arguably is undervalued relative to the market in terms of dividend performance record and potential.

Final: 1975 (1974)
Capitalization £380m
Net Profit £18.1m (£12.1m)
Dividend gross 8.326p (7.711p)

Lucas Industries

Performing strongly

Lucas shares have been one of the top performers in the current bull market and there was an appreciable short-term bull position in the shares ahead of yesterday's investment statement, which hopes that the figures would be accompanied by news of a dividend boosting rights issue.

That there is no rights issue at this stage may not in fact

preclude one at a later stage—Lucas has no immediate need for more cash—though how far the group would be prepared to go in any funding to make a substantial improvement on a prospective yield of 3.9 per cent is another matter.

Meanwhile, first half profits were fully up in the market's best expectations, with the United Kingdom contribution to the pre-tax total moving up from £8m to £13m and the overseas contribution from £5.1m to £8m.

At home, the diesel equipment business has continued to perform strongly, while last year's cost cutting exercise has more than offset continuing slack demand on the car component side and the aircraft division has produced the expected recovery from last year's negligible return. Overseas, improved market share in a recovering market have produced significant volume gains on the continent, while roughly doubled minorities point to good performances in South America and India.

The second half growth rate was clearly not going to be anything like the 60 per cent seen in the first six months. But while the United Kingdom diesel operations are probably on something of a plateau until the new Gillingham capacity comes on stream next year, there should now be improved demand on the car side to work through.

With the aircraft and overseas sides also going well, Lucas could be heading for around £45m pre-tax for the full year, pointing to a p/e of around 7 with the shares at 282p. The fact that the company is raising cash to keep the shares moving in line with the market even if the best of the share's relative strength must now be counted as a warning.

Interim: 1975-76 (1974-75)
Capitalization £150m
Sales £328m (£269m)
Pre-tax profits £21m (£13.1m)
Dividend gross 2.33p (2.12p)

Royal Worcester

Consumer resistance

The effects of the economic recession finally caught up with Royal Worcester in 1975. As the year progressed the group ran into increasing consumer resistance throughout its range of its tableware, industrial ceramics and electrical components businesses in the second half.

In the end, profits for 1975 slumped by 46 per cent to £24m on sales up by £2.5m to £18.1m. But despite the sales slump, Royal Worcester has matched its forecast of higher dividends, made at the time of last August's £1m rights issue, and a final dividend of 4.5p per share gross is proposed making 8p for the year, an effective increase of 43 per cent.

The market for Royal Worcester's table and ornamental china, porcelain and earthenware became increasingly sensitive to price movements in 1975. And though the division's sales increased by just under a third in the year to £9.2m, the rise, made up one third by volume, two thirds by price increases, left this side £176,000 down in profits, from £234,000. Overseas sales account for 27 per cent of the tableware side's sales.

On the industrial ceramics front, the simple facts of low capital—goods expenditure through industry has depressed sales from 1974's £305,000 to £198,000 on near static turnover.

Royal Worcester now accepts that it will have to "fight every inch of the way" in the current year, which it will see through until both consumer and industrial demand picks up. The shares dropped 8p to 116p on the results, where they lean heavily on a still well covered dividend yielding 6.9 per cent.

Final: 1975 (1974)
Capitalization £6.89m
Sales £19.12m (£16.59m)
Pre-tax profits £1.24m (£2.26m)
Earnings per share 12.0p (22.9p)
Dividend gross 8.0p (5.581p)

The food industry: making price restraint palatable

Three things will ensure that 1976 marks a turning point for the food processing industry in Britain. First, the marked change in the pattern of consumer spending; second, the onset of an entirely new species of government control mechanism; and, thirdly, the impact of the British decision to stay in the EEC.

The change was outlined by Mrs Shirley Williams, Secretary of State for Prices and Consumer Protection, and Mr Ronald Halstead, president of the Food Manufacturers' Federation, at this year's federation conference.

Mr Williams: "Ours is a rapidly ageing country and the old don't eat as much as the young. The disposition of spending will move towards things like heating and away from things like food."

Mr Halstead: "From 1960 to 1975 expenditure on food as a percentage of personal disposable income has declined steadily from 23.2 per cent to 16.6 per cent."

He went on to show that spending on food has been less buoyant than in other areas since 1970. Taking that year as 100, food has reached 100.2, clothing 116.3, beer 117.5, cars 130.2, savings 178.4 and real disposable income 119.7. "In other words spending on the 'good life' has increased," he said.

Mr Halstead said that the food industry campaign being conducted ahead of the end of the present price controls in July was fired this week. Ministers, food companies and trade union leaders received a booklet from the Food and Drink Industries Council called *How Safe Is Your Food?*

It said that statutory price controls had pinched investment, led to redundancies and done damage out of proportion to the savings gained by shoppers. The council wants the present controls to be replaced by retrospective examination of profit margins by a statutory body without day-to-day power to raise prices.

Food companies are also in the front line for planning agreements. Officials of the

Ministry of Agriculture, Fisheries and Food say that such pacts have existed in British farming for years. Therefore, they argue, since food processing is not removed from agriculture, the industry is not far removed from planning agreements either.

Now that planning agreements are in the air, officials at the ministry have begun to look at the price review in a new light. They see it as a kind of cosmic planning agreement in which prices and output for sectors of agriculture are set out for the coming year.

Mr Robert Moss, the ministry official who has had preliminary talks with food companies about planning, said: "In many respects planning agreements would not require either side to enter completely new territory. Decision-making by government and industry in regard to agriculture has already actively involved the sharing and joint discussion of plans and objectives."

Dr Keith Dexter, director-general of Adas, the ministry's development and advisory service, said he had detailed discussions about policy with one of the largest British companies which supply inputs to farmers. This idea of having discussions not only with individual farmers but with the ancillary industries as well is, Mr Moss said, what a planning agreement is all about.

It is therefore ironic that the severe chosen for first discussions, dairying, has told officials that it does not want to adopt such agreements. No part of the food processing industry is closer to agriculture than dairying with its possible exceptions of meat manufacture and bacon-curing.

If the industry is squeezed at home, what are its chances abroad? Less than a year ago Mr Alfred Morris, Minister for the Disabled and formerly parliamentary secretary to Mr P. J. Pearcy, Minister of Agriculture, Fisheries and Food, said in the EEC referendum cam-

aign: "Our adherence to the common agricultural policy is a mugs' game."

He was dismissed with a lofty flourish at the time, but the food processing industry might now be tempted to private to agree with him. Powerful as the industry is at home, it has not managed yet to come near matching the lobbying power of farmers in Brussels. It fears that the price awards in the 1976 farm price review will stimulate output of some raw materials beyond desirable levels by means of price rises that will arouse further consumer resistance.

Moreover, in the words of Mr Halstead: "When we went into Europe food manufacturers in other EEC countries had some fears about our competitive strength. The operation of the Price Code over the past three years has seriously undermined our position, both materially and psychologically."

Relaxation of price and profit controls will enable industry to make more profit. That in turn will give it more scope to recapture some of its lost share of shoppers' money.

Since the Conservative Government fell in 1974 the industry has at the same time learnt gradually to replace the rigid stance of total opposition to all price controls with a more flexible response.

The point was underlined in the economic review for this year of the Trades Union Congress. "Generalised criticisms of the price control system which do not carry any conviction may be obscuring specific points of difficulty, which the TUC would be prepared to consider in relation to improved investment and the broader goals of the industrial strategy."

The message was quoted by Mrs Williams at the food manufacturers' conference. She was telling them that it was unnecessary for them to be dragged kicking and screaming into the last quarter of the twentieth century.

Hugh Clayton

Greek fears of a Trojan horse

Mario Modiano in Athens

A deliberate slowdown in private industrial investment has prompted the Greek government to set up a state agency which will invest wherever private initiative is lacking. This is expected to spur reluctant Greek businessmen to end their boycott or else watch the state take over the best investment opportunities in the country.

If Greece is to join the EEC and receive a member without too many tears, massive industrial investments are needed now. But Greek industrialists show reluctance to invest for two reasons.

First, there is the continuing world recession and the resulting uncertainty which inevitably reflects on the Greek economy. Above all, there is the deepening crisis in shipping which had been a steady source of venture capital for the country.

Secondly, there is the scepticism with which Greek businessmen view what they call the government's "socialism". An opening to the left which they consider to be a threat to the status quo.

The Greek manufacturers made their misgivings public with unusual candour early this month when their association was asked to endorse what was described as a concerted campaign by the press and the politicians to discredit them as ruthless profiteers. The association gave warning that if the Greek government wanted to attract investment at a time of recession and high risk, it should imitate other western governments which gave generous incentives and subsidies to industry.

The government reacted in the "provocation" of the

membership of the EEC their businesses could hardly survive without large-scale investment for expansion. The new agency would be complementary to private initiative, he said, but wherever private capital lagged or hesitated, it would supplement it altogether.

The agency is a consortium controlled by four state-owned banks led by the National Bank of Greece, with a capital of £40m. Known as the "Greek Industrial & Mineral Investments Corporation" (Elevma), it proposes to concentrate on investments related to the exploitation of the country's vast mineral resources.

The founders of Elevma assert that their intentions towards private capital are strictly honourable: their corporation will concentrate on investments that private initiative spurns either because they involve vast amounts of capital, which they cannot afford or are unwilling to risk, or because the feasibility studies are too costly, or because private investors are not aware of the country's overall development needs.

The consortium plans to make investments worth \$1,500m in the next few years and estimates that the full exploitation of known mineral resources in Greece should yield about \$700m revenue a year.

Greek industrialists are known to have resented this sudden incursion of state business in what had been their exclusive domain. They fear that this financial giant will offer unfair competition because it can draw its funds from the state banks.

They have been assured, however, that investors will be welcome to participate in the industrial companies created by Elevma, or even take them over, provided they can guarantee that they can make them work profitably.

Using this technique, it may be possible to store more than 100 million binary digits on a square inch of material.

Present-day computer circuits, by contrast, take 100 times as long—and generate 10,000 times as much heat.

Josephson-based computer circuitry will be a long-term technology, but it is a complete departure from present electronic technology—but is regarded as probably the most promising new technology for extending the performance of computer logic and memory.

In magnetic storage, again, a new technology is emerging which potentially could provide mass storage at low cost, free from the mechanical problems of discs and tapes. This is the technology of "magnetic bubbles".

In the context the bubbles are tiny regions of reversed magnetization in a thin magnetic film. They can be moved around and sensed by metal patterns on the surface of the film.

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A thousand million dollars for their thoughts

A thousand million dollars will buy a lot of research and development. This is the amount International Business Machines spends on R and D each year.

Of this total about 10 per cent, or about £50m, goes on research. In terms of people IBM research occupies more than 1,500, of whom over 1,200 are scientists and technicians. At the top of this vice-president and director of research.

Prodigious in people and in projects, IBM's research effort spans a wide range from basic science to applied technology. Examples from various parts of the spectrum were given last week at a European press seminar at La Ruche, near Brussels.

What IBM does today, the rest of the industry reacts in tomorrow. These are some of the "today" projects at the computer giant's laboratories in Yorktown Heights, New York; San Jose, California; and Zurich, Switzerland.

Materials science is important in understanding the properties of electronic and magnetic structural—a range of materials, from semiconductor and metal alloys to organic compounds.

The use of electron beams and X-rays in producing ever smaller integrated circuit patterns has led to significant offshoots. One of these is a new X-ray microscopy technique which enables biological specimens to be studied at magnifications higher than those attainable with optical microscopes.

In the science of computer logic and memory, as in other computer-related projects, IBM is working both on developing existing techniques and on devising alternative technologies. In extending the existing silicon-based transistor technology, IBM scientists have made experimental field-effect transistor memory elements that enable about five million binary digits to be packed into one square inch. In ordinary language, this means 30 times the density of memory units in IBM computers announced only three and a half years ago.

In parallel, brand-new memory and logic technology is being pursued, based on the phenomenon of superconductivity which makes some metals lose their electrical resistance at temperatures close to absolute zero.

As predicted by Brian Josephson, a British Nobel Prize-winning physicist, electrons can "tunnel" through a very thin insulating layer between two superconducting electrodes in two distinct ways. This has made possible experimental devices which switch from one type of tunnelling to the other in only 10 picoseconds (there are one million billion picoseconds in a second).

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Kenneth Owen Technology Correspondent

Business Diary: £149,585 well spent? • Floating dock

On July 23, 1969, Anthony Bolton, now Secretary of State for the Environment and under for the leadership of the Labour Party, was the president of the Board of Trade, transmitted a report on small firms.

When, two years or so later, the Bolton presented the said report of the Committee of Enquiry into Small Firms, it was to Cressland's Tary success, Mr John Davies, not only resident in the Board of Trade, transmitted a report on small firms.

Bolton's report said that small firms were indispensable to Britain but were nevertheless a hiding to nothing, thanks to Government and City myopia. The report cost £149,585 of public money, but in mention to time, Mr Bolton and his committee, as well as that of the individuals and companies who submitted evidence. The report contained 250,000 words and spawned 18 research reports and more than 60 recommendations—with what result?

Bolton, an accountant when he advised government on everything from health service management efficiency in the form of local government, said yesterday: "The small firm sector is, if anything, in a worse plight than when we made our report."



Anthony (now Lord) Barber; small businessperson; Denis Healey; and John Bolton: preaching to the unconverted.

He was speaking in London in his role as a director of benign neglect by government, the clearing banks and by the institutions—speaking from the eleventh floor of the ICF's Waterloo offices, overlooking the Commons. Although he was hard on

governments of either stripe for burdening small firms with taxation, inflation and, pepperwork, he was particularly severe about the clearing banks and the institutions—speaking from the eleventh floor of the ICF's Waterloo offices, overlooking the Commons.

Many banks, he said, restricted the lending freedom of branch managers in £3,000—the same as in 1945—with dire consequences to even the most promising of small firms. ICF is, of course, jointly owned by the clearing banks and by the Bank—the Government's agent in the City.

Musical chair

Gordon Parker, the 34-year-old chairman, managing director and founder of Felixstowe Dock and Railway, tendered his resignation at a board meeting yesterday morning. His decision to go along with the rest of Felixstowe's board, serves a 25-year association with the harbour he turned from a back water into the country's most successful private port.

Felixstowe's directors will hand over management of the port to Keith Wickenden's European Ferries group in the next few days. But just how long Wickenden will occupy Parker's chair depends on Parliament. Wickenden's group has won control of Felixstowe's shares, and now that its offer for the

company has gone unconditional Parker and his team are to accept on behalf of their own 3.8 per cent holding and recommend that Felixstowe shareholders accept before the offer finally closes on April 2.

In spite of these developments the British Transport Docks Board is still pressing ahead with its plans to take over the port.

The board's bid pre-dates the European Ferries offer and was only delayed by the board's need to seek parliamentary approval for the deal. Its enabling Bill passed its second reading in the House of Commons the day before yesterday by a 26 vote majority.

If the Bill gets through its remaining stages in time to receive the Royal Assent before mid-November, when the bid lapses, the docks board will be left with 150p a share to European Ferries as the new Felixstowe shareholders. The board's chairman, Sir Humphrey Brown, will then inherit the Parker-Wickenden seat.

This elaborate game of musical chairs could be interrupted by parliamentary opposition to the docks board's bid successfully delays its passage until after the mid-November deadline. Pledges for amendments to the Bill have come from Felixstowe's port users association, European Ferries and Trinity College, Cambridge.

The college is one of the principal landlords in the Felixstowe area and opposition within the House of Commons has caused two distinguished Trinity College graduates, David Lane, Conservative MP for Cambridge, and Enoch Powell, Ulster Unionist MP for South Down.

Despite Mr Powell's and Mr Lane's efforts, Sir Humphrey is still confident that the docks board will be taking over at Felixstowe by the end of the year. And if it fails, Sir Humphrey believes that the Government's ports nationalisation programme will get Felixstowe in the end anyway. So the Parker-Wickenden-Sir Humphrey seat could be in for quite a bit of wear over the next few years.

Heard the one about the United States Trade Centre in London and how they called off plans for an exhibition of American security directly booked for Paris and Frankfurt and it was too much trouble to mount a further showing here.

Charles Shaw, the centre's director, is now rather ruefully wishing they'd gone ahead with the idea. Somebody broke into the centre's Latham Place offices on Monday night, carried over two safe and made off with £150 in cash.

Gallenkamp

INTERIM STATEMENT

RESULTS: The unaudited results of the Gallenkamp Group of Companies for the six months to 31st December 1975 are:

	Half year to 31.12.75	Half year to 31.12.74	Year 1974/75
Group sales	£11,384	£11,384	£20,000
Group pre-tax profit	1,885	1,885	2,480
Provision for taxation at 32%	580	580	1,314
Profit after taxation	1,305	1,305	1,176
Earnings per share—basic	13.72p	13.72p	17.85p
Earnings per share—fully diluted	12.47p	12.47p	16.50p

SALES: Home sales during the period were of similar value to the U.K. turnover for the comparative six months of 1974. Achievement of the Group sales objective therefore resulted from the planned increase of exports, which represent approximately 40% of sales and contributed very significantly to the profit earned during the half year.

TRENDS: Current trends are not indicative of any general upturn in the U.K. demand for laboratory apparatus or scientific educational equipment, and major business opportunities for the Group in many overseas markets are becoming more sporadic. It is consequently increasingly difficult to predict longer term developments, but there can be little doubt that the results of the Group for the year to 30th June, 1976 should show an improvement on those of 1974/75.

DIVIDEND: The Gallenkamp board of directors has declared an interim dividend of two pence per share, amounting to £131,448 (1975: £177,065). This dividend will be paid on 21st May, 1976 to members on the register at the close of business on 9th April, 1976.

A. Gallenkamp & Company Ltd
Scientific Instruments—laboratory apparatus
Technique House Christopher Street London EC2P 2EP

FINANCIAL NEWS

Hanimes interim profit up 30 per cent

Pre-tax profit of Hanimes Corporation, the London-quoted leisure industries group, was up 30 per cent at \$43.52m, against \$33.52m, in the half-year to December 31 on sales of \$436m, against \$430m.

With the group's plans for new products now being developed, "we can look forward with confidence not only to satisfactory trading in the current financial year, but also to sound growth for the future," says Mr. Jack Hannes, chief executive.

Increased activity in product design and development is now beginning to show "very tangible benefits, particularly in the areas of pocket photography and calculators. Hanimes is becoming a major world supplier of these products."

The British subsidiary improved its performance following reduced operating costs and increased efficiency. "We expect this subsidiary to continue to show profit growth despite the current United Kingdom economic difficulties," says Mr. Hannes.

Building of the new Irish factory in Cork is now nearing completion. The board expects plant to be installed by June, with operations beginning about September.

Australian and overseas

merchandising divisions recorded higher sales and profits, partly due to improved consumer demand but, more importantly, because of an increase in market shares. International export sales achieved "remarkable growth" which can be expected to continue and contribute substantially to profitability during 1976.

Commerzbank to pay more

From Peter Norman Bonn, March 25. Consolidated group net profits at Commerzbank AG jumped by 36.8 per cent last year to DM189.2m (about £38m). The bank, which is the first of the big three West German private banks to report its results, is to

Overseas

raise its dividend from 8.50 to 10 marks a share. The increased dividend was promised last autumn when the bank raised its capital through a rights issue.

Although Commerzbank did not specify the earnings of the

parent bank, the dividend and reserve payments suggest that net profit rose last year to DM148.5m from DM109.6m in 1974.

Kloekner payout is still uncertain

Duisburg, March 25.—The steel sector's modest recovery so far in the 1975-76 business year is expected to continue, but whether Kloekner-Werke AG shareholders will receive a dividend or not is still completely open, the chairman Herr Herbert Glawatz said.

The company has not proposed a dividend for 1974-75 (previous payment six marks). It earlier announced a Dm 65m parent-company operating loss (1973-74 operating profit of between Dm 10m and Dm 15m). Mr. Glawatz told a press conference that Kloekner is currently back in profit but no one can predict how permanent the business upturn will be.—Reuter.

National Cash

Augsburg.—Turnover for year ended in November 39, rose 3.6 per cent to 476.7m. National Cash Registers' German subsidiary while pre-tax profits fell due to higher costs.

Orders on hand at December 1, stood at Dm 313m (down 8.4 per cent). NCR expects turnover for 1975-76 to be about 10 per cent down because of restructuring. (NCR GmbH is a 100 per cent subsidiary of National Cash Registers of the United States.)—Reuter.

Kiwi Int upsurge

The directors of Kiwi International report a leap of 235 per cent in trading profits to SA\$27,326 for the half-year to February 29. This reflects improvement in all the main areas of the group's business and includes benefits derived from the reorganization in Europe.

The group's overseas trading results are converted at exchange rates ruling at the end of February. The directors believe that the results for the second half of the year are likely to be maintained at a "satisfactory level" and this should enable the continuation of regular half-yearly dividend payments.

Jardine (SE Asia)

Hongkong, March 23.—Last year, the consolidated net profit of Jardine Matheson and Co (SE Asia) Ltd reached \$10.3m (Singapore) against \$6.6m. The dividend is 20 Hongkong cents (18 cents last time).

Manbre & Garton bidding \$3.5m for Hugh Baird

Manbre and Garton, the international commodities and merchandising group, is bidding \$3.5m for Glasgow-based merchant Hugh Baird & Sons, it was announced last night.

Takeover Panel permission was obtained for Manbre to buy for cash, at 36p per share, the 30 per cent shareholding of the Canadian Mining Co in the group. It has also purchased half the preference capital, at 20p per share.

A formal offer to other shareholders will be sent out within the next few weeks. Within a similar cash terms, as well as an equity offer. Before the purchase of Canadian Mining's stake, Manbre had a 50 per cent holding in Hugh Baird.

About one third of the shares in issue are controlled by the Hugh Baird board. The group created its pre-tax profits of \$684,000 to \$688,000 last year.

New Interests in L'pool Post

A better second half put the stakes on a profit slide at Liverpool Daily Post & Echo. Pre-tax profit dropped per cent to £2.81m after an earlier downturn of 32 per cent. In the second six months of the year, the group's profits were up 31 per cent.

On a turnover increased from £7.3m to £7.2m, earnings a rock unit were 12.5p against 11.8p. The group's profits for the year were up 31 per cent from £7.3m to £7.2m.

A breakdown shows that earnings from newspapers in Britain slipped by about 70,000, but this was offset by improvement of £12,000 on the Canadian division. The group's other division apart from newspapers in the United Kingdom did better. Tightly controlled costs, effective marketing, and recent capital expenditure all played their part at the board level.

The outcome for 1975 shows at the group has widened its base of profitability. Newsprint remains an integral part of activities, but other trading operations "protected the sale."

Brands has arranged the first part credit loan for a construction project in the Republic of Panama which will finance the Panama Canal expansion project.

The loan for \$4.3m is guaranteed by ECGD and will finance that portion of the Panama Hotel Project involving 48 of the services in the United States region contractor, Cementa International. The total loan to be invested in the hotel is \$50m, which is guaranteed by the Republic of Panama.

Export boost in strong Alkermid opening

On sales up from \$9.42m to \$13.3m, pre-tax profit of Alkermid & Co jumped from \$3m to \$1.88m in the half to December 31. Though cautious prospects for the future, the company's chief executive, Mr. Peter Hallatt, said, "the scientific instruments and forecasts profits better in 1974-75's £2.49m."

Earnings a share in the half were 7.55p and, fully diluted, 5.7p against 7.18p. The mid-year dividend was lifted from 4p to 3.08p.

Generally, home sales were of similar value to the comparable half. The achievement of its sales objective resulted, says Mr. Hallatt, from the planned increase of exports. These represented about 40 per cent of total turnover and contributed "very significantly" to the profits used.

Aluminum offering. Aluminum Co of Canada has an offering in the international capital market of 30m (\$30m) principal amount of debentures, due 1988. The offering will be made by an international group of underwriters led by

Morgan Stanley International. Aluminum is wholly-owned by Alcan Aluminum. The proceeds will be used towards financing part of its capital expenditure programme and also for working capital requirements. The debentures will not be offered for sale in the United States or Canada.

Totalisator gets share option to bid

In addition to Ladbroke Group's 15p cash offer for each share, the 1975 offer from Totalisator & Greyhound Holdings share announced on February 6, the two boards have now agreed to a share alternative. This comprises one 10p ordinary share in Ladbroke for every new 5p ordinary share in Totalisator. Acceptors of the offer will be entitled to retain the 1975 dividend on their Totalisator shares declared yesterday.

Winsor & Newton near £1m in peak year

Recession or no, Winsor & Newton, which makes artists' materials, has pushed its pre-tax profits for 1975 up from £821,000 to a record £912,000 and looks forward to achieving even better results this year. This could take the group past the £1m mark.

The company's earnings of £644m at home and the flow of orders both at home and for export remains buoyant. Earnings a share came out at 13.8p, against 12.7p, while the dividend is raised from 9.5p to 10.7p.

Blackwood Morton returns to black

With sales rising from £12.1m to £12.2m in the six months to December 31, the Blackwood, Morton & Sons group of carpet makers has returned to profits. A loss of £551,000 turned into a profit of £551,000 before tax and shareholders will receive a gross dividend of 1.24p, the first payment since 1974. Moreover, the board intends to pay a final dividend in the second half.

IMI poised to grow

The money raised by Imperial Metal Industries' £20m two-for-one rights issue will enable the group to improve its competitiveness and expand by organic growth and acquisition. Sir Michael Clapham, the chairman, told the annual meeting in Birmingham. The result of the issue will be announced next week, Sir Michael said.

This metal refining, fabricating and slabs fasteners subsidiary of Imperial Chemical Industries had a "dramatic and surprising year" in 1975 but the board is confident that the group is well placed to resume profitable expansion as world trading improves.

Le Nickel loan

Luxembourg.—The European Investment Bank (EIB) has granted a loan of 26.1m French francs to help finance expansion of capacity of Societe Metallurgique Le Nickel (SNL). This is in the French overseas territory of New Caledonia, in the South Pacific.

The loan for 12 years with interest at 9.5 per cent has been provided to Calste Centrale de Cooperation Economique for on-lending to SNL's New Caledonian Ferro-Nickel Mining project. This requires total financing of 150m francs, the bank said.

Ferro-Nickel alloys and sulphurated mixtures rich in nickel from the mine are mostly shipped to an SNL plant at Le Havre, France, for processing into refined products, EIB said.—AP-Dow Jones.

Scottish Life. Mr. P. Turcan, the chairman of the Scottish Life Assurance group reports progress in all departments, and notes also that the cost of running the life office can best be measured by the ratio of life expenses to life premium income. This ratio shows a fall from 14.8 per cent in 1974 to 14.3 per cent in 1975, thanks largely to the rapid growth in premium income.

Share stakes. Marshall Cavendish says that British Printing Corp has reduced its holding in the com-

pany by 75,000 shares and now holds 2.81m shares.

The Rank Organisation reports that as a result of the reorganisation of the company's "A" ordinary shares, the shareholding of the Rank Star Insurance and its subsidiaries no longer constitute 10 per cent or more of the company's capital.

Robert R. Stockis (Manchester) announces that Shaw Wood Trust has bought a further 3,000 ordinary shares in the company. It is now interested in 380,829 shares (59.40 per cent).

Bruntons holds steady at £1.7m

Despite the recession and a seven-week unofficial strike, the pre-tax profits of Bruntons (Muskeburgh), the Midlothian-based steel products group, fell only slightly from £1.75m to £1.69m last year. Earnings a share are up from 10.25p to 10.48p.

The company's earnings of £1.69m at home and the flow of orders both at home and for export remains buoyant. Earnings a share came out at 13.8p, against 12.7p, while the dividend is raised from 9.5p to 10.7p.

Home market sales declined from £6.83m to £6.2m but exports rose from £912,000 to £1m.

Emu Wine board now favours Thos Hardy

The final instalment in the protracted struggle for control of Emu Wine Holdings appears to be in sight. The boards of Emu and the Australian group Thos Hardy & Sons have agreed that the latter's offer of 182p will be declared unconditional should Hardy acquire more than 50 per cent of Emu.

Meanwhile the Emu board no longer recommends the Western Australian and Worsted Mills' bid of 170p and instead recommends the Hardy offer. Emu's board will withdraw its own acceptance of the WATW offer, while strongly advising stockholders who have also accepted to do likewise as soon as possible.

On Wednesday, a circular from the Hardy family, holding over 32 per cent of Emu, declared their acceptance of the Hardy offer.

TPT looks brighter

Paper-tube manufacturer TPT, an offshoot of American group Sonoco Products, fell away in 1975 from £2.9m to £2.16m pre-tax. Sales were also down, from £18.1m to £16.9m. Earnings a

share fell from 7.51p to 5.97p, while it pays a total lifted from 4.17p to 4.49p gross.

The board states that in a tough year for the world's paper and packaging industries, the results are considered satisfactory. On the brighter side, in several countries the recession had levelled out before the year-end.

On this note, overall trading results to date to the present term show some improvement on the same period.

With effect from April 1, Yorkshire Chemicals has sold the business of its adhesives division to Borden (UK), of Southampton, for a total consideration of £10.5m. The £300,000 is for stock and book debts, and of the balance £300,000 is payable immediately and £450,000 by equal instalments over the next three years.

The YC board is satisfied that its decision to concentrate on business core areas of the textile and leather industries will ensure that its resources will be directed to those areas with the greatest potential for profitable growth.

Magnolia ahead. Makers of picture-frame mouldings Magnolia Manufacturing reports pre-tax profits for 1975 slightly up from £506,000 to £531,000 pre-tax. This was an increase of £283m against £2.63m. Earnings a share rose from 13.61p to 14.33p. It pays a total dividend increased from 1.13p to 1.37p gross.

In the present term, domestic sales are in excess of the same period, and there are indications of an improvement in the order book. A similar pattern is emerging in its export markets.

Pittard recovers. Although it has not yet returned to the record profit levels of 1972, the Pittard Group of leather tanners and dyers has rebounded from last year's "low" of £496,000 to £1.01m before tax. Sales for 1975 exceeded from £9.1m to £10.3m.

The board proposes a one-for-two scrip issue as well as an increase in dividend from 4.85p gross to 5.2p. If the forecast upturn in the British economy materializes, the group's results should reflect this with improved profits.

Garton Cooper dips. A dip in pre-tax profits for 1975 from £574,500 to £545,000 is reported by Garton Cooper. The fasteners and pressings group. Turnover went up from £8.9m to £7.5m. The dividend is raised from 7.04p to 7.13p gross.

Business appointments. Sir Charles Villiers to leave Courtaulds board. As a result of his appointment as chairman-designate of the British Steel Corporation, Sir Charles Villiers, who is due to retire by the end of the year, will not seek re-election.

Mr. N. H. Smith and Mr. N. S. Wooding are appointed additional deputy chairmen, and Mr. J. A. Gardner, chief executive of the Laid group, and Mr. G. J. Williams, chairman and chief executive of Becton Group, will join Courtaulds as non-executive directors, with immediate effect.

Mr. N. Mobbs will be chairman of the Courtaulds board from April 1, in succession to Mr. G. Mobbs, who is retiring. Mr. G. Mobbs becomes honorary president.

Mr. Christopher Johnson, a director of the Financial Times and managing director of its business enterprises division, has been appointed economic adviser to Lloyd's Bank in succession to Mr. Jack Winton who is retiring later this year.

Mr. Michael Anthony Rich was yesterday appointed a full-time chairman of Industrial Tribunals for Nottingham from April 1. Mr. Rich, who is also a director of Industrial Tribunals for London with effect from April 20.

Mr. W. J. Eckert and Mr. M. L. Givort have joined the board of Ascon.

Mr. Charles Stronach has been made regional director of Esso in Scotland and Northern Ireland.

Mr. A. W. John, who recently retired from the board of Uni-

Anglo American Corporation Group

Extracts from the reviews by the chairmen of the Transvaal gold mining companies for the year ended 31 December 1975.

The following topics are covered in each chairman's review.

Once the first IMF auctions are over and the present uncertainties relating to them are removed, the chairman are confident that the gold price will find a stable floor from which it will rise in the period ahead. Such a recovery will, of course, be accelerated should the problems faced in 1973 and 1974 show any signs of returning. The trend whereby substantial increases in working costs were more than offset by the rise in gold price did not continue in 1975. The devaluation of the rand in September, by improving rand receipts from gold sales by 22 per cent, has however provided the industry with a valuable period of respite, during which programmes to contain cost escalation must be increasingly implemented. The Chamber of Mines, of which we are members, has already undertaken to support the voluntary anti-inflation programme agreed between the Government, the private sector and the trade union movement. In any event, a continuing unfavourable gold price will necessitate wage restraint being exercised in all but the lowest categories of pay, as outlined in the anti-inflation manifesto.

Within these limitations, the policy of increasing the wages of our Black employees shall be pursued until they are competitive with secondary industry in South Africa. As a result of the improved wage levels the proportion of South Africans in Vaal Reefs' total Black labour force has increased from 32 per cent in 1974 to 47 per cent at the end of January 1976, and in Western Deepes from 26 per cent to 40 per cent in the same period. In the longer run our goal must be to stabilise the industry's Black labour force as far as possible. This can be achieved only by improving the prospects of a Black recruit joining the mines to the extent that he views mining as an attractive and continuing career and not

simply as a means to achieve a cash target. Schemes have already been evolved to attract men to return to the same mine after each period of leave. Equally important is the need to extend the promotional routes for Black employees who show promise and to provide them with the requisite training. The impact of such measures to create a stable nucleus of increasingly skilled employees in supervisory and other positions will be greatly strengthened by the provision of more manied housing. It is most encouraging that, following discussions between the industry and Government, we have been informed of new arrangements which will permit senior married Black employees from South Africa and the homelands to be housed with their families in Black residential areas, where they are reasonably close to the mines. Meanwhile the importance of improving the amenities and appearance of single accommodation is not being overlooked. The need to maintain harmonious labour relations with all employees remains paramount, not only to avoid costly disruptions in production, but also to cope with the rapid changes taking place in Southern Africa. Two gold mines within the Group tested striking groups as an additional means of downward communication. Following the success of the experiment the system has been extended to all the gold mines of the Group. Employees at all levels are now kept regularly informed of the progress of their company and of major decisions which affect them. Meanwhile, a new consultative committee structure is being developed whereby elected Black representatives can communicate more effectively to management the collective ideas and views of Black employees.

Vaal Reefs

Extracts from the review by Mr. D. A. Etheredge

Tonnage milled rose slightly to 8 022 000 tons but the grade dropped by 0.82 grams to 10.19 grams a ton. Both the tonnage and the grade were adversely affected in the first quarter by the exodus of some 33 per cent of the labour force. Additional factors causing the fall in grade were the reduction in pay which allowed a greater proportion of lower grade ore to be mined, less sorting on surface and the necessity for the South Division to mine in a partially eroded zone to the west of the shaft system. Gold production fell by five per cent to 81 333 kilograms. Gold working profit decreased by 19 per cent to R104 910 000 because of the decline in gold production and an increase of 28 per cent in unit working costs to R19.98 a ton. As a result, the added effect of the drop in grade, the cost per kilogram of gold produced rose by 38 per cent to R19.57. The loss of R100 000 on Uranium in 1974 was converted into a working profit of R4 951 000 in 1975 because of increased sales and higher prices.

The company's profit after tax at R66 718 000 was marginally higher than last year. Together with the profit retained from the previous year, the sum available for appropriation was R70 857 000 from which R31 023 000 was appropriated for capital expenditure and R39 250 000 for dividends of 175 cents a share (1974: 220 cents). Retained profit of R6 584 000 carried forward into 1976 was higher than the previous year's figure and is considered more in keeping with the financial requirements of a company of this size. The company's mining complex is vast in terms of production and personnel. From its eight separate shaft systems, the company hoists and mills 3.5 times as much ore as an average gold mine in South Africa and produces nine per cent of South Africa's gold output. The total number employed on the mine is about 32 000 which ranks among the world's largest concentrations of people within a single business complex.

The only major labour disturbance at our mine during 1975 occurred in January among Basotho employees over the introduction of a compulsory deferred pay scheme by the Lesotho Government. The unrest, which resulted in a third of the labour force leaving for home, was a principal reason for the disappointing results of the first quarter.

The shortage of labour, which affected production throughout the industry in 1975, has been overcome mainly by a large inflow of Black South Africans at the beginning of the current year. The mine is now at full strength and there is every reason to hope that operations in 1976 will not be hampered by labour shortages. Meanwhile negotiations continue for the resumption of recruiting in Malawi. Capital expenditure for the complex in 1975 is estimated at R23 000 000, of which R15 000 000 is to be spent in the North Division. Mechanisation of development and stoping is continuing. At R4 100 a kilogram, ore reserves are estimated as being 15 191 000 tons at 14.43 grams a ton; at R3 500 a kilogram 16 993 000 tons at 14.81 grams a ton; and at R4 000 a kilogram 18 872 000 tons at 13.86 grams a ton. The previous year's estimate was 15 812 000 tons at 13.86 grams a ton, at a pay limit based on a gold price of R3 000 a kilogram.

Our planned production for 1976 is 6 730 000 tons milled at a grade of 9.8 grams a ton which reflects the greater proportion of lower grade ore to be mined at Nos. 3 and 4 shafts (North) and No. 1 shaft (South). This target includes South Division's planned production of 1 990 000 tons milled at a grade of 9.2 grams a ton.

Western Deep Levels

Extracts from the review by Mr. D. A. Etheredge

The tonnage milled in 1975 increased marginally to 3 095 000 tons. Grade dropped by 0.51 grams to 15.42 grams a ton, which was nevertheless higher than the initial forecast of 14.5 grams a ton and gold output was one per cent lower at 47 736 kilograms. Unit working costs rose by 27 per cent to R20.73 a ton milled, and because of the 31 per cent to R1 344. Gold working profit decreased by two per cent to R111 811 000. Uranium working profit fell from R1 328 000 to R661 000 in 1975, not only on account of a reduction in tonnage sold but also because spot sales of surplus uranium concluded at market prices in 1974 were not repeated.

After-tax profit rose by six per cent to R67 592 000. With the addition of the profit retained from the previous year, the sum available for appropriation was R62 262 000 from which R18 627 000 was appropriated for capital expenditure and R38 875 000 for dividends of 14.75 cents a share (1974: 160 cents). Retained profit was raised from R4 671 000 in 1974 to R5 780 000 in 1975, the higher figure reflecting consideration of more appropriate having regard to the current level of the company's operations.

The shortage of labour, which affected production throughout the industry in 1975, was particularly severe at Western Deep Levels. However, mainly owing to a large inflow of Black South Africans this year the mine is now at full strength.

Capital expenditure in 1975 is estimated at R21 500 000. In October 1975 Elandsrand Gold Mining Company Limited raised R60 million by an offer of 20 million shares at R3 each to shareholders of our company, Western Vaal Deep Levels Limited and Witwatersrand Deep Limited. Including a small number of shares to the company themselves. Together with its holding prior to the issue our company now has a 2.9 per cent interest in Elandsrand. Full-scale sinking operations at Elandsrand began in January 1976 and, in order to reduce the non-productive period between shaft commissioning and mining, certain advance development work is being undertaken by our company on behalf of Elandsrand.

At R3 100 a kilogram, ore reserves are estimated as being 5 348 000 tons at 18.55 grams a ton; at R3 500 a kilogram 5 579 000 tons at 18.02 grams a ton; and at R4 000 a kilogram 5 836 000 tons at 18.41 grams a ton. Because the longwall method of mining is relatively inflexible, ore reserves are not very sensitive to variations in the gold price. The previous year's estimate was 5 622 000 tons at 18.08 grams a ton, at a pay limit based on a gold price of R3 000 a kilogram.

Our planned production for 1976 is 3 240 000 tons milled at a grade of 15.5 grams a ton.

East Daggafontein. Extracts from the review by Mr. N. F. Oppenheimer

The tonnage milled decreased by six per cent in 1975 to 1 010 000 tons. A considerable drop in tonnage reclaimed from waste dumps was offset to a certain extent by an increase in underground ore hoisted. Grade fell by 0.45 grams to 1.77 grams a ton, and gold production by 25 per cent to 1 793 kilograms.

Continued cost inflation and wage increases, together with extensive maintenance work in the gold extraction plant, resulted in unit working costs rising by 32 per cent to R8.55 a ton milled. The drop in grade added the cost per kilogram of gold produced to rise by a greater proportion, namely 64 per cent from R2 828 in 1974 to R4 815, and to overtake the higher gold price received. The working profit of R1 748 000 in 1974 was therefore converted into a working loss of R1 428 000 but, after State assistance of R1 376 000 and net

sundry revenue of R56 000, the loss before tax was reduced to R6 000. Tax of R23 000 increased the loss to R29 000. Deduction of this amount from the retained profit brought forward from 1974 left R776 000 from which R468 000 was appropriated for capital expenditure. No dividends were declared and retained profit of R308 000 was carried forward into 1976.

There is a possibility that State assistance to the company will be withdrawn at the end of 1976 although no decision has yet been taken. In such an event the mine will have to be closed unless there is a considerable improvement in the gold price. Members are reminded that the break-up value of the mine is not significant.

During 1975 we reached agreement with The South African Land & Exploration Company Limited for mining management and certain services to be retained for the benefit of both companies. As a result, the mine manager of S.A. Land was also appointed manager of our mine, and the mine secretarial, engineering and personnel departments were amalgamated and located at S.A. Land. The benefits of these measures will be fully reflected in working costs in 1976.

There were no labour disturbances during 1975 at the mine and, except for a slight shortage of Black labour towards the end of the year, supply was satisfactory. The company's planned production for 1976 is 1 450 000 tons milled at a grade of 1.50 grams a ton. No ore reserves have been established.

S.A. Land & Exploration

Extracts from the review by Mr. N. F. Oppenheimer

The tonnage milled in 1975 fell by nine per cent to 993 000 tons, mainly as a result of a serious shortage of Black labour which persisted throughout the year. Grade rose slightly to 5.17 grams a ton but the lower tonnage resulted in the gold produced, at 5 136 kilograms, being eight per cent less than in the previous year. An increase of 39 per cent in working costs to R17.10 a ton milled led to a substantial fall in working profit from R49 000 in 1974 to R17 800. The rise in unit working costs was caused primarily by the continued effect of inflation on the cost of stores and services, higher wages and the reduction in tonnage milled. In addition, however, certain pumping costs claimed for re-embursement under the State Pumping Assistance Scheme were disallowed.

With the addition of net sundry income of R294 000, profit before tax in 1975 was R2 030 000. Profit after tax and State's share of profit amounted to R1 942 000 compared with R3 288 000 in 1974. Together with the profit retained from last year, the sum available for appropriation was R2 346 000 from which R512 000 was appropriated for capital expenditure—mainly incurred on prospecting—and R990 000 for dividends at 30 cents a share (1974: 85 cents). In view of the uncertainty regarding future profits it was decided that retained profit should be increased, and an amount of R844 000 was therefore carried forward into 1976.

It became clear during the year that our mine could not continue to operate profitably if longer-term development was maintained, as this severely limited the amount of ore which could be hoisted to the mill. The only course open to the mine was to confine development to reasonably accessible areas where stoping could follow within about three years. In consequence, there has been a beneficial effect on grade and on the tonnage of ore hoisted for milling. It is not easy to predict when underground operations will cease, as it depends partly on the price of gold and partly on whether the mine will remain eligible for State assistance under existing legislation. At best, it seems that operations might continue until the end of 1976. Capital expenditure in 1975, excluding prospecting, is expected to be R42 000, which will be spent on the completion of work begun last year.

It has recently been announced that Rioden Investments Limited—which it is intended will be known as East Rand Gold and Uranium Company Limited (ERGU)—will re-treat old slimes dams on the East Rand to recover gold, uranium and sulphate. ERGU's central treatment plant complex will be situated within our mining lease area and arrangements are being made to sell the ground required. In addition, negotiations are in progress with ERGU for the treatment of the company

MARKET REPORTS

Metal prices
ease back
on the LME

In the metals copper contended its volatile pattern on the London Metal Exchange yesterday with profit taking and stop-loss activity causing prices to ease. In ring dealings cash wire bars were 52.25 down on Wednesday afternoon's close and three months dropped 57. At the afternoon close cash wire bars were 59 down on Wednesday at £710.50 and three months were 29.50 down at £731.25.

In morning dealings 20 remained firm with standard cash remaining at the overnight

Commodities

£3.0250 and three months were 52.25 down on Wednesday afternoon's close and three months dropped 57. At the afternoon close cash wire bars were 59 down on Wednesday at £710.50 and three months were 29.50 down at £731.25.

Bank Base
Rates

Barclays Bank	9 1/2%
First London Sec	9 1/2%
C. Moore & Co.	9 1/2%
Lloyds Bank	9 1/2%
Midland Bank	9 1/2%
Nat Westminister	9 1/2%
Rossminster ACC	9 1/2%
Shelley Trust	11 1/2%
Williams & Glyn	9 1/2%

* 7-day deposits on sums of £10,000 and under, 5 1/2% up to £25,000, 6 1/2% over £25,000, 6 3/4%.

Hamilton
rent IBM
typewriters,
composers,
memory and
magnetic
card
typewriters,
Hewlett
Packard
calculators,
mini-
computers,
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equipment,
add listing
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ANGLO AMERICAN CORPORATION GROUP

TRANSVAAL GOLD MINING COMPANY

CLOSING OF REGISTER

For the purpose of the Annual General Meeting of the undenominated companies, to be held at 44, Abchurch Lane, London, EC4N 3DF, on the 26th day of May 1976, the transfer registers and registers of members of those companies will be closed during the period indicated.

Name of Company

Date of meeting

Date of Closing of Transfer Registers (Both days inclusive)

Deggaford Mines Limited

27.4.76

29.4.76

21st to 27th April

East Ogilvie Mines Limited

do.

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do.

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do.

Lead eased marginally in morning dealings. At the afternoon close cash wire bars were 59 down on Wednesday at £710.50 and three months were 29.50 down at £731.25.

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Foreign
Exchange

The Belgian franc dropped to the lower half of the European currency unit, the pound sterling trading yesterday.

The mark moved ahead against the dollar and most other currencies amid fairly heavy sales of the Belgian franc in German centres, dealers reported.

Sterling closed 35 points lower against the dollar, at \$1.9725. Its depreciation rate rose to 33.7 per cent from 32.8 overnight.

Trading in the pound was subdued ahead of the first ballot for the Labour leadership, dealers said.

In Europe, the mark gained to 2.5775 against the dollar from 2.5650 overnight with the Belgian franc unit at 38.89/93 from 38.78/82 previously.

The mark in the dominant position in the West, stood some 1-3/16 per cent higher in the system than the Belgian franc, which was grouped closely with the Danish and Swedish crowns in the lower half of the unit.

The German currency stood 1-13/16 per cent above the Norwegian crown, the system's weakest member, compared with the permitted 2 1/2 per cent limit.

The French franc was relatively steady at 4.8900/50 in dollar terms from 4.8850/60 overnight.

Gold fell 75 cents an ounce, to \$133.50.

Spot Position of Sterling

Markets

Forward Levels

Drop in world rubber output

World natural rubber production in 1975 is estimated at 3,295,000 tonnes against a revised 3,435,000 in 1974, the International Rubber Study Group said.

Consumption is estimated at 3,342,500 against a revised 3,505,000 tonnes. Synthetic rubber production totalled 5,542,500 tonnes against a revised 7,417,500 and consumption was 5,837,500 (7,216,000 revised).

Gold

Authorized Units, Insurance & Offshore Funds

Authorized Unit Trusts

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Discount market

The chance of a slight shortage of money in the discount market had been recognized from the outset yesterday, but it wasn't expected that the authorities would find it necessary to give help on a moderate scale. Even so, they did not give as much assistance as the situation appeared to warrant. The close was tight with banks finally ruled out anywhere between 8 and 9 1/2 per cent.

Money was expensive all day. Early rates were in the range of 8 1/2 per cent or 8 3/4 per cent. The close was very tight with banks finally ruled out anywhere between 8 and 9 1/2 per cent.

The major contributory factor to the persisting tightness of money was that tax money flowed into the revenue more heavily than anticipated.

Money Market Rates

Recent Issues

Recent Issues

Recent Issues

Recent Issues

Recent Issues

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Wall Street

New York, March 25.—Stock prices showed broad effects of the European currency unit and the New York Stock Exchange.

The Dow Jones Industrial average closed off 7.38 points to 1002.13. Declining issues led gains by about 560 to about 480.

Volume fell to 22,510,000 shares from 32,610,000 shares yesterday.

Analysts said many investors were cashing in on strong gains of the past two sessions, in which the industrial average jumped almost 27 points.

The Wall Street and Canadian stock prices given in the table relate to Wednesday's close. Later publication is caused by the change to British Summer Time. This will continue until Eastern Daylight Time begins in the United States.

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Firm tone

5 Forward bargains are permitted on two previous days.

Why rent just any car when you can rent a Europcar?

europcar
The car hire specialists



104-112 Buckingham Palace Rd - London SW1 - Tel. 01-730 62 34

[illegible]

£6,000 plus appointments

All recruitment advertisements on this page are open to both male and female applicants.

Solicitor for Registrar General's Department, Hong Kong Up to £8,550 p.a.

- 25% Gratuity on salary
- Low tax area
- Free medical treatment
- Free passages
- Generous terminal leave
- Subsidised accommodation
- Special education allowances
- Holiday visits for children

The Registrar General's Department, Hong Kong, requires Solicitors to help with legal work in the various branches of the Department, including the Land Office, the Registrar's Office, the Companies Registry, the Trade Marks and Patents Registry, and the Births, Marriages and Deaths Registry.

Applicants should preferably be aged under 35, must be either Solicitors with at least 4 years' professional experience since Admission, or Barristers with at least 5 years' professional experience since Call.

Appointments will be for an initial period of 2 years. The salary range for the post is HK\$ 4,275 - HK\$ 6,220 per month (approx. £5,250 - £8,550 p.a.). Starting salary will depend on experience.

For further information, write to the Hong Kong Government Office, 6 Grafton Street, London, W1X 3LB, quoting reference GRCOL at the top of your letter. Closing date for applications 15th April, 1976.

* Based on exchange rate of HK\$ 7.00 = £1.00
This rate is subject to change.

Hong Kong Government

DISABLED LIVING FOUNDATION DIRECTOR

CHARITABLE TRUST WORKING IN FIELD OF PHYSICAL MENTAL DISABILITY. DAY TO DAY LIFE. ADVISORY, INFORMATION, RESEARCH, EDUCATION, REHABILITATION, COUNSELLING, FILMS, LITERATURE, MUSIC, ARTS, CRAFTS, AND OTHERS.

The Director is responsible for the day to day running of the Foundation. He will be responsible for the development of the Foundation's work, and for the management of its resources. He will also be responsible for the recruitment and supervision of staff, and for the financial management of the Foundation.

Further details apply, in confidence, to the Director, Disabled Living Foundation, 346/d Kensington High Street, in W14 8NS, not later than 14th April, 1976.

OIL BROKER

An internationally known Shipbroking Group wishes to appoint an OIL BROKER to create and develop an Oil Broking section.

Applicants should be well informed on the trading logistics between oil companies, and preferably already have had experience with an oil company or Tradar.

The successful applicant will be based in London.

Curriculum vitae to Box 0071 P, The Times.

Director General

Greater Manchester Passenger
Transport Executive
£15,500/£16,500

Applications are invited for the above appointment.

Applicants should have considerable administrative experience and be able to demonstrate high level managerial achievement.

The conditions of service will be those prescribed by the J.N.C. for Chief Officers of Local Authorities.

GMC
Greater Manchester Council

Application forms and a Statement of duties and conditions are available from the County Personnel Officer, County Hall, Piccadilly Gardens, Manchester M60 3EP. Closing date 10th April.

THE KEMBLE PIANO AND MUSICAL INSTRUMENT GROUP require an EXECUTIVE DIRECTOR

to take responsibility for the administration of their YAMAHA AMPLIFICATION AND SMALL MUSICAL INSTRUMENT DIVISION.

Applicants must have already had experience in an Executive Capacity in the industry, and the post will carry Top Salary coupled with the normal fringe benefits.

Please apply in writing to the Managing Director, KEMBLE PIANO GROUP, Mount Avenue, Bletchley, Milton Keynes, MK1 1JE.

AGRICULTURAL RESEARCH COUNCIL INSTITUTE FOR RESEARCH ON ANIMAL DISEASES

Compton, Newbury, Berks RG16 0NN

A vacancy exists for

SECRETARY to the ARC Institute for Research on Animal Diseases

This Institute has a staff of over 300 and an estate of nearly 2,000 acres. Its objective is the investigation of the diseases of farm livestock, with special respect to improving production.

The Secretary serves under the Director and is Head of the Administration Department. Delegated to him/her is day-to-day responsibility for all financial, personnel and general administration matters, liaison with ARC Headquarters, security and management of the 123 houses on the estate.

The vacancy is at Principal grade, salary range £5,600-£7,400, with a non-contributory superannuation scheme.

Further information can be obtained from the Acting Secretary of the Institute, to whom applications and curriculum vitae should be sent, quoting Ref: 196, before 12 April, 1976.



WARWICKSHIRE COUNTY COUNCIL Education Department

AREA EDUCATION OFFICER, EASTERN AREA—(POST NO. ED.8)

Applications are invited for this post, based at Rugby, which becomes vacant on the retirement of the present holder on 30th June, 1976. Salary scale Principal Officers Range 2 (1-4), £5,600-£7,400 p.a.

Candidates should have had successful teaching and administrative experience. A settling-in allowance of up to £400 is payable in approved circumstances, and assistance with housing for a short time is a possibility.

FURTHER PARTICULARS AND APPLICATION FORMS OBTAINABLE FROM THE COUNTY EDUCATION OFFICER, 22 NORTHGATE STREET, WARWICK, CV34 4SR, TO WHOM THEY SHOULD BE RETURNED BY 28th APRIL, 1976.

FUND RAISING CONSULTANT

Experience and training with professional company desirable. Total remuneration in the range £5,000 to £7,000 and excellent fringe benefits and opportunity for financial advancement. Career appointment. Must be prepared to travel within the U.K.—Box 0036 P, The Times.

SERVICE MARKETING MANAGER

Circa £7,000 — Car

Marketing applied to offer sales in the automobile world requires a professional touch.

If you have a top track record in Marketing, are between 25 and 40 and believe you can fit into a Young Aggressive Team operating out of our Brentford head office.

CALL US — OR WRITE TO

Gordon Gibson, Service Director

BMW CONCESSIONAIRES G.B. LTD.

991 Great West Road, Brentford, Middx.

Tel: 01-568 9155

Mercedes Sales Manager

MUSCAT — SULTANATE OF OMAN

The Daimler Benz agents for Oman require an automotive Sales Manager. Ideally the candidate should have had overseas experience, be aged between 35 and 45 years and have experience of selling Mercedes vehicles. A knowledge of tractors would also be an advantage.

The successful candidate will receive a tax free salary equal to approximately £6,500 p.a., together with free air-conditioned, furnished accommodation, personal transport and paid annual leave with return passage paid.

Interviews will take place in London during April.

Please write with full C.V. to

MISS E. J. HART, ROOM 122,

HYDE PARK HOTEL,

66 KNIGHTSBRIDGE, LONDON S.W.1.

UNIVERSITY OF MALAWI BUNDA COLLEGE OF AGRICULTURE

Applications are invited for the following posts, available from 1976-77:

LECTURER IN AGRICULTURAL ENGINEERING. Applicants should hold a first degree in Agricultural Engineering and postgraduate studies and experience in their engineering discipline. They should be able to teach and supervise students in the field of farm structures, surveying, and technical drawing.

TURF IN PLANT BREEDING. Applicants should have a first degree in Agriculture or Botany with postgraduate studies and experience in Plant Breeding and Genetics. They should be able to teach and supervise students in the field of plant breeding and genetics, and to conduct research in plant breeding and genetics.

TURF IN AGRICULTURAL CHEMISTRY. Applicants should have a first degree in Agriculture or Chemistry with postgraduate studies and experience in Agricultural Chemistry. They should be able to teach and supervise students in the field of agricultural chemistry, and to conduct research in agricultural chemistry.

TURF IN ANIMAL NUTRITION. Applicants should have a first degree in Agriculture or Animal Nutrition with postgraduate studies and experience in Animal Nutrition. They should be able to teach and supervise students in the field of animal nutrition, and to conduct research in animal nutrition.

TURF IN HONEY ECONOMICS. Applicants should have a first degree in Agriculture or Economics with postgraduate studies and experience in Honey Economics. They should be able to teach and supervise students in the field of honey economics, and to conduct research in honey economics.

Salary (including separate addition): £2,800-£4,713 p.a. (plus £1.50 per hour for overtime). The University of Malawi is a public body and its staff are employed on the public service scale. The University of Malawi is a public body and its staff are employed on the public service scale. The University of Malawi is a public body and its staff are employed on the public service scale.

Applications are invited for a post of Lecturer in the Department of Sociology. The successful candidate will be responsible for the teaching and supervision of students in the field of sociology, and for the conduct of research in sociology. The successful candidate will be responsible for the teaching and supervision of students in the field of sociology, and for the conduct of research in sociology. The successful candidate will be responsible for the teaching and supervision of students in the field of sociology, and for the conduct of research in sociology.

Applications are invited for a post of Lecturer in the Department of Law. The successful candidate will be responsible for the teaching and supervision of students in the field of law, and for the conduct of research in law. The successful candidate will be responsible for the teaching and supervision of students in the field of law, and for the conduct of research in law. The successful candidate will be responsible for the teaching and supervision of students in the field of law, and for the conduct of research in law.

UNIVERSITY OF SINGAPORE LAW

Applications are invited for teaching appointments to the Faculty of Law from candidates who have, preferably, a Master's degree in Law and relevant teaching or research experience. Candidates with good Bachelor's degree may also apply.

Monthly emoluments in the range from \$1,300 to \$5,440 approx., the initial amount depending on the candidate's qualifications and experience and the level of appointment offered. Gross emoluments comprise basic salary and National Wages Council wage allowances. In addition, the University pays a 13th month annual advance of one month's basic salary in December each year, and contributes to the staff members' provident fund at 15% of basic salary and allowances.

Medical, housing and other benefits are available. Candidates should write to: The Registrar, University of Singapore, Singapore 10, giving curriculum vitae (Bio-data), with full personal particulars, and to the names and addresses of three referees.

UNIVERSITY OF BIRMINGHAM The National University of Lesotho

Applications are invited for

(a) LECTURERSHIP

or

(b) ASSISTANT LECTURERSHIP

in MATHEMATICS

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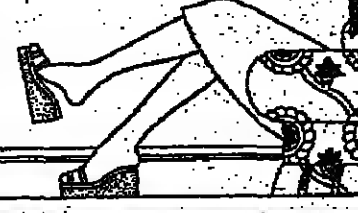
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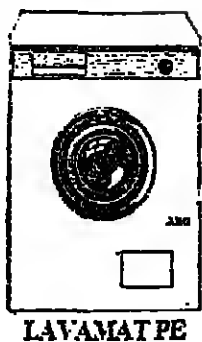


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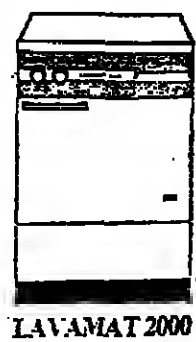
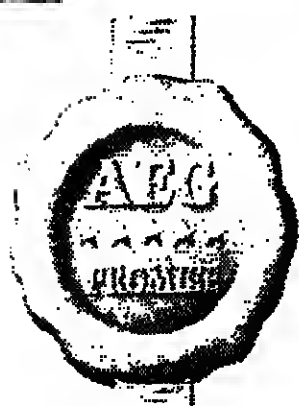
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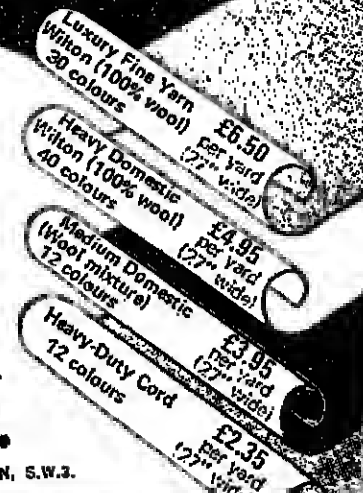
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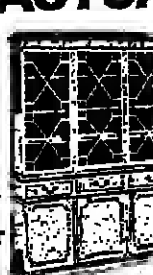


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